

10/1/2020 8:06 AM

OETTINGER, JEFFERY M

1. CURVE DATA IS BASED ON THE ARC DEFINITION.

CHARTER COMMUNICATIONS

CONTACTS

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WPS - ELECTRICITY

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DNR CONTACT:

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Dial or (800)242-8511 www.DiggersHotline.com

2. WHEN THE QUANTITY OF THE ITEMS OF BASE AGGREGATE, SUBBASE OR HMA PAVEMENT IS MEASURED FOR THICKNESS OF THE LAYER SHOWN ON THE PLAN MEASURED FOR PAYMENT BY THE TON OR CUBIC YARD, THE DEPTH OR THICKNESS OF THE LAYERS SHOWN ON THE PLAN IS APPROXIMATE AND THE ACTUAL THICKNESS DEPEND ON THE DISTRIBUTION OF THE MATERIAL AS DIRECTED BY THE ENGINEER

3. CONTRACTOR WILL BE RESPONSIBLE FOR RESHAPING AND RESEEDING ANY PREVIOUSLY GRASSED AREAS WHICH ARE DISTURBED BY HIS OPERATION OUTSIDE OF THE NORMAL CONSTRUCTION LIMITS

4. THE LOCATION OF EXISTING & PROPOSED UTILITY INSTALLATIONS AS SHOWN ON THE PLANS ARE APPROXIMATE. THERE MAY BE OTHER UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN ON THE PLAN

5. PURSUANT TO CHAPTER 59 OF THE WISCONSIN STATUES, THE CONTRACTOR SHALL CAREFULLY MAKE A SEARCH FOR EVIDENCE OF A LANDMARK IN ALL AREAS WHERE SUCH A LANDMARK MAY EXIST

RUNOFF COEFFICIENT TABLE

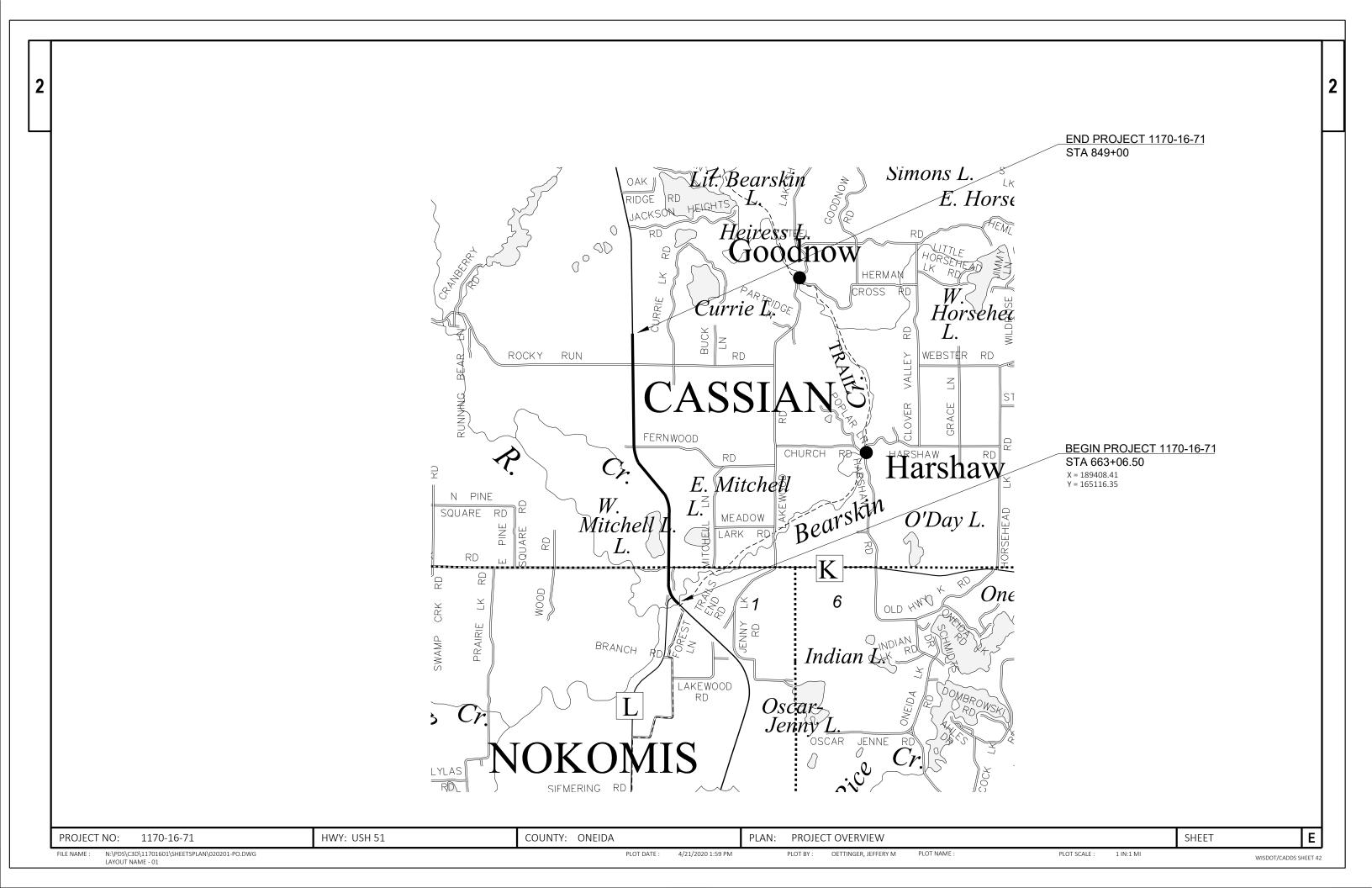
					ŀ	HYDROLOGIC SOIL G	ROUP						
			А	В					С		D		
	SLC	PE RANG	E (PERCENT)	SLOPE RANGE (PERCENT)			SLOP	E RANGE	(PERCENT)	SLOPE RANGE (PERCENT)			
LAND USE:	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	0-2	2-6	6 & OVER	
ROW CROPS	.08	.16	.22	.12	.20	.27	.15	.24	.33	.19	.28	.38	
	.22	.30	.38	.26	.34	.44	.30	.37	.50	.34	.41	.56	
MEDIAN STRIP- TURF	.19 .24	.20 .26	.24 .30	.19 .25	.22	.26 .33	.20 .26	.23 .30	.30 .37	.20 .27	.25 .32	.30 .40	
SIDE SLOPE: TURF			.25 .32			.27 .34			.28 .36			.30 .38	
PAVEMENT:		•	•	,		•	•		•				
ASPHALT						.7095							
CONCRETE						.8095							
BRICK		.7080											
DRIVES, WALKS		.7585											
ROOFS						.7595							
GRAVEL ROADS, SHO	DULDERS					.4060							

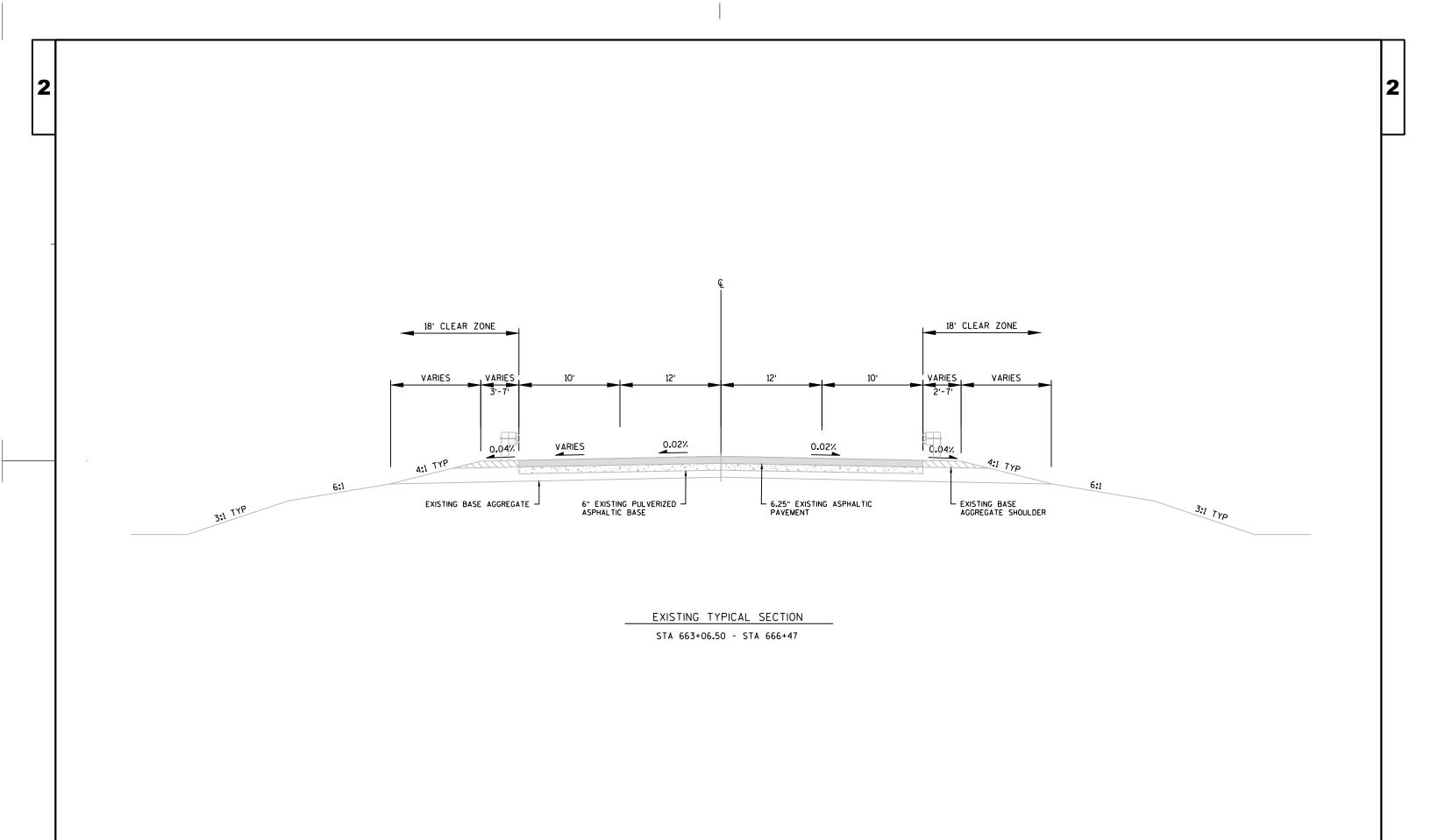
TOTAL PROJECT AREA = 22.831 ACRES

TOTAL AREA EXPECTED TO BE DISTURBED BY CONSTRUCTION ACTIVITIES = 0.000 ACRES

Ε PROJECT NO: 1170-16-71 HWY: USH 51 COUNTY: ONEIDA **GENERAL NOTES** SHEET N:\PDS\C3D\11701601\SHEETSPLAN\020101-GN.DWG PLOT DATE : PLOT BY: OETTINGER, JEFFERY M PLOT NAME PLOT SCALE : FILE NAME : 11/25/2020 8:25 AM ###########

LAYOUT NAME - 01





COUNTY: ONEIDA PROJECT NO: 1170-16-71 HWY: USH 51 PLAN: TYPICAL SECTIONS SHEET E

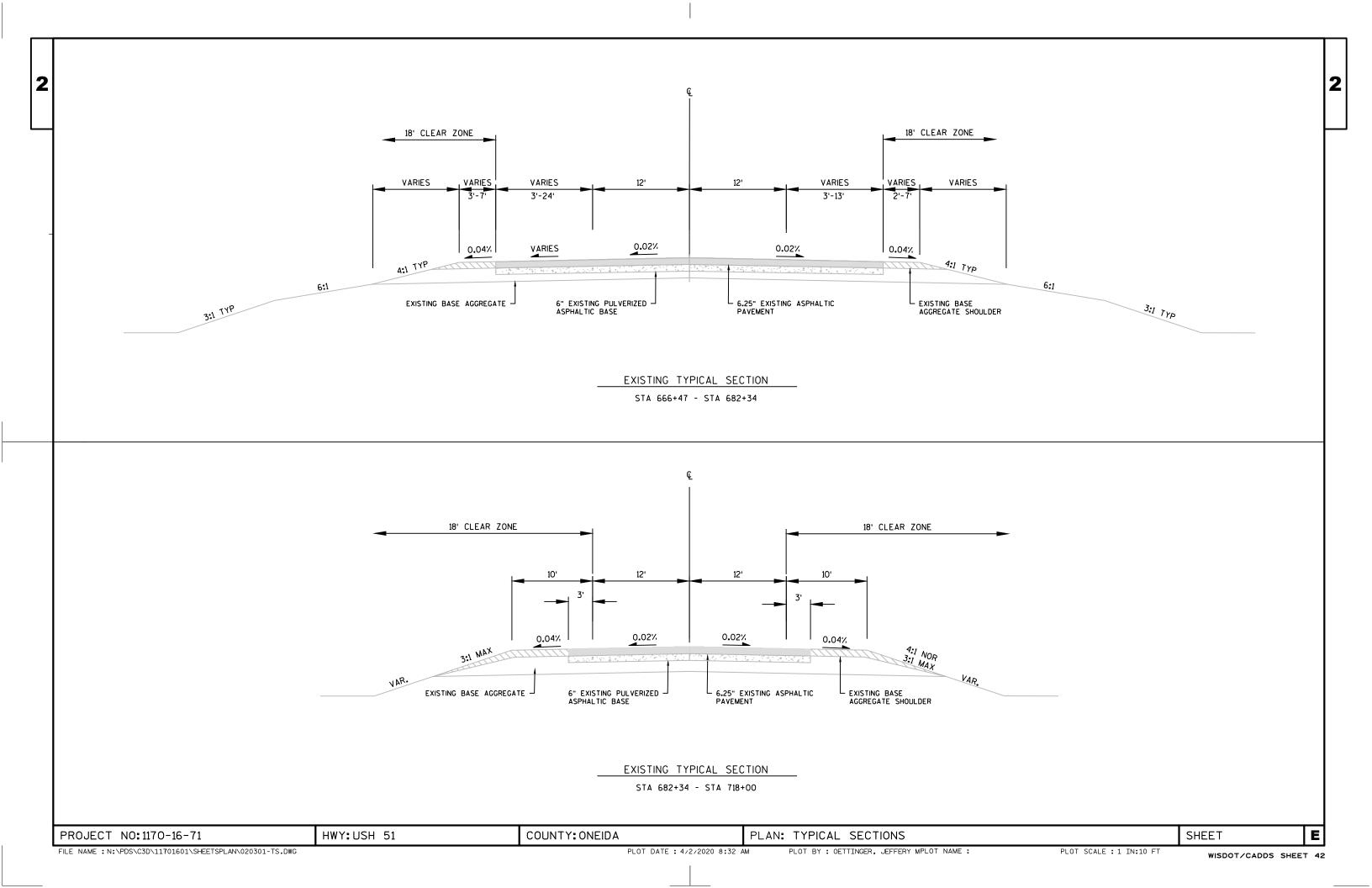
FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG

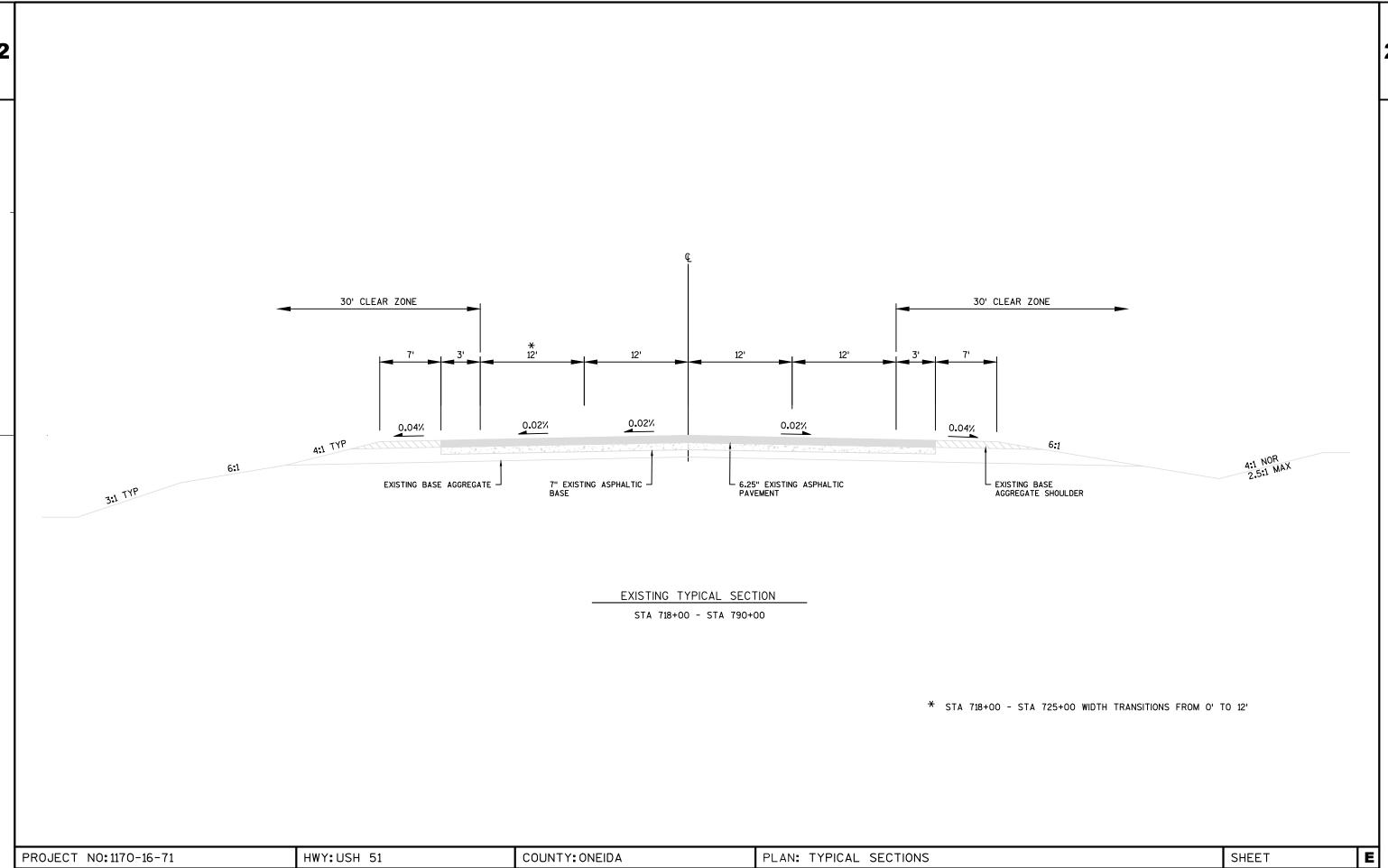
PLOT DATE: 4/2/2020 8:30 AM

PLOT BY : OETTINGER, JEFFERY MPLOT NAME :

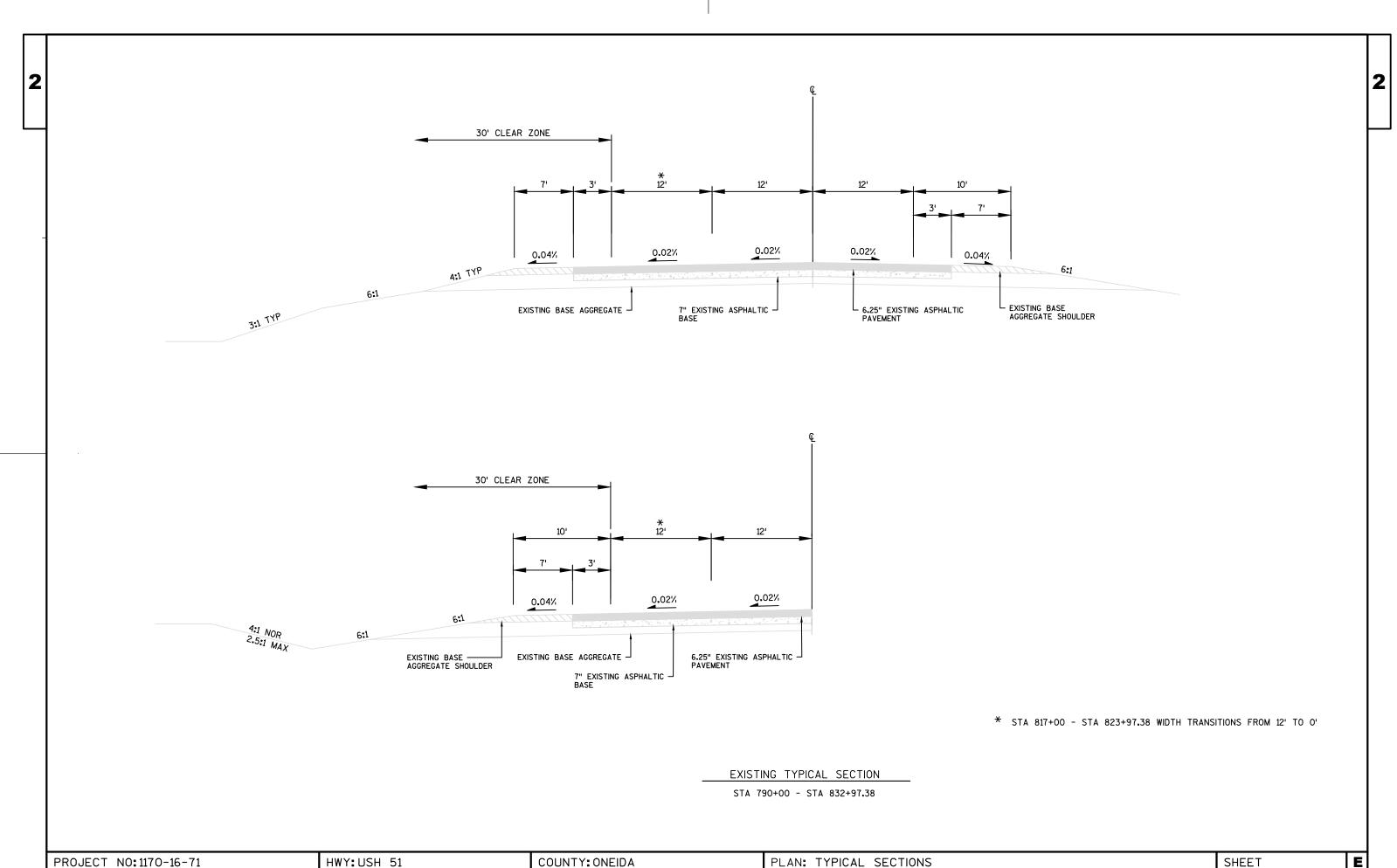
PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

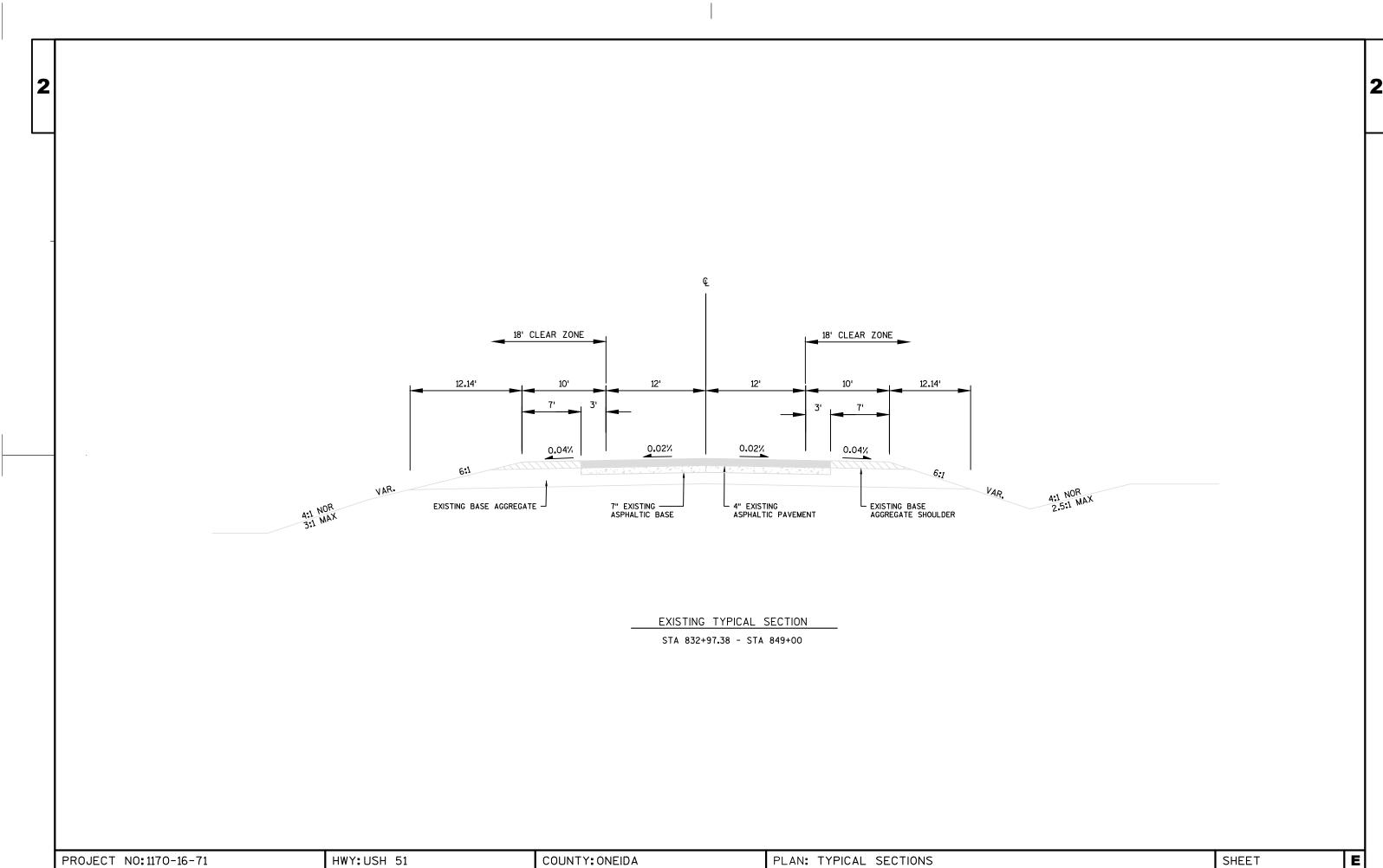




FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT DATE : 4/2/2020 8:33 AM PLOT BY : OETTINGER, JEFFERY MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42



FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT DATE : 4/2/2020 8:37 AM PLOT BY : OETTINGER, JEFFERY MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42



FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT BY: OETTINGER, JEFFERY MPLOT NAME: PLOT DATE: 4/2/2020 8:39 AM PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

2

3.76' 10' 12' 12' 10' 3.76'

7' 3' 3' 7' 4:1 NOR 2.5:1 MAX

EXISTING PUVERIZED ASPHALTIC PAVEMENT ASPHALTIC PAVEMENT ASPHALTIC PAVEMENT

EXISTING TYPICAL SECTION

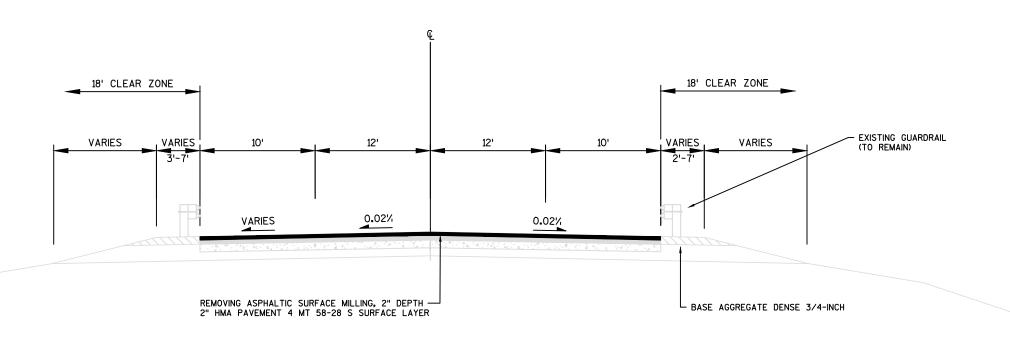
VAR.

STA 8+98 - STA 10+00 (CTH L)

PROJECT NO:1170-16-71 HWY:USH 51 COUNTY:ONEIDA PLAN: TYPICAL SECTIONS SHEET **E**

FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT DATE : 4/22/2020 6:46 AM PLOT BY : OETTINGER, JEFFERY MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

2

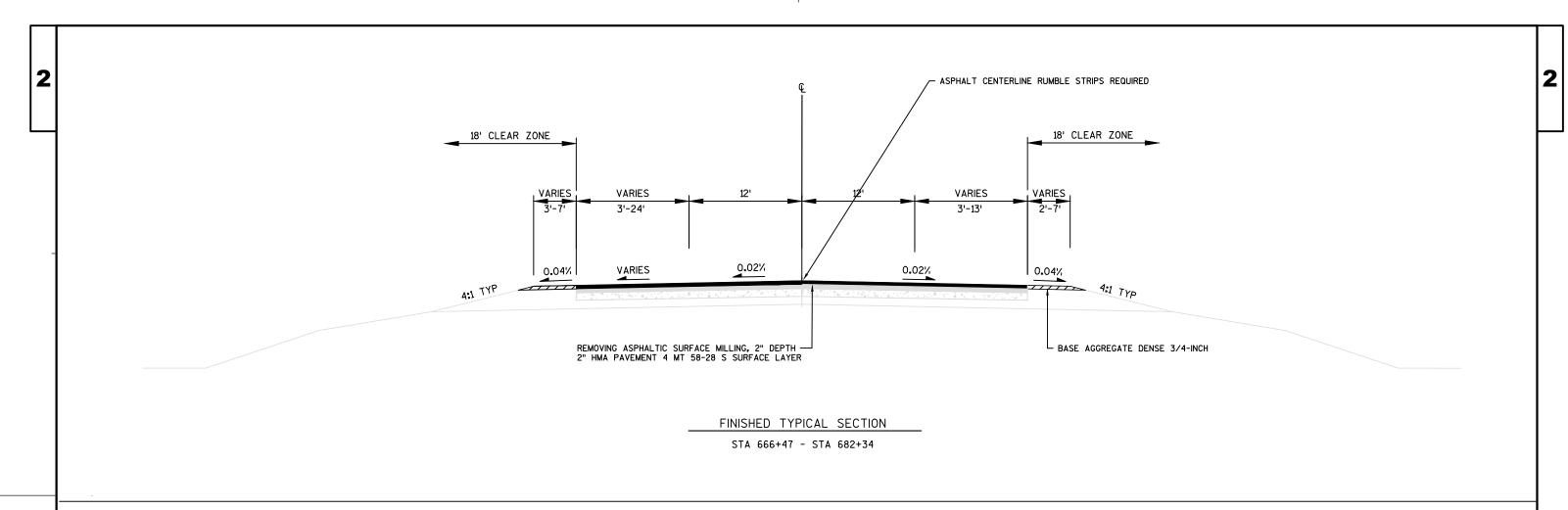


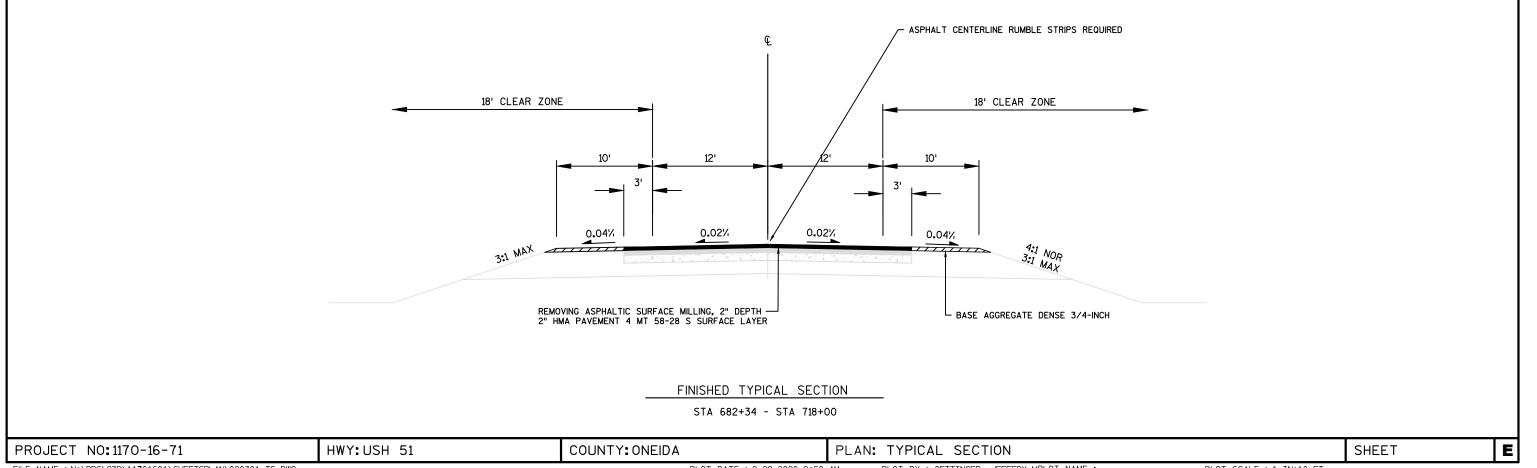
FINISHED TYPICAL SECTION

STA 663+06.50 - STA 666+47

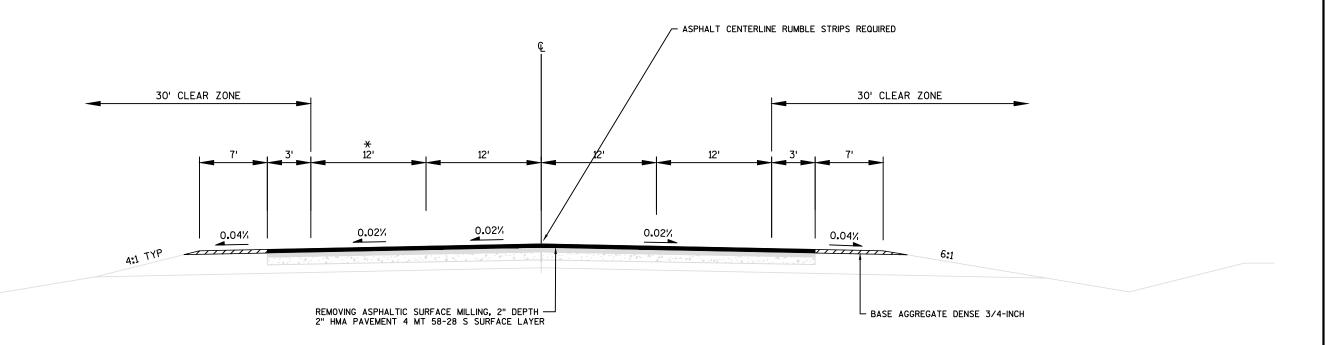
PROJECT NO:1170-16-71 HWY:USH 51 COUNTY:ONEIDA PLAN: TYPICAL SECTIONS SHEET

FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT DATE : 10/1/2020 10:55 AM PLOT BY : 0ETTINGER, JEFFERY MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42





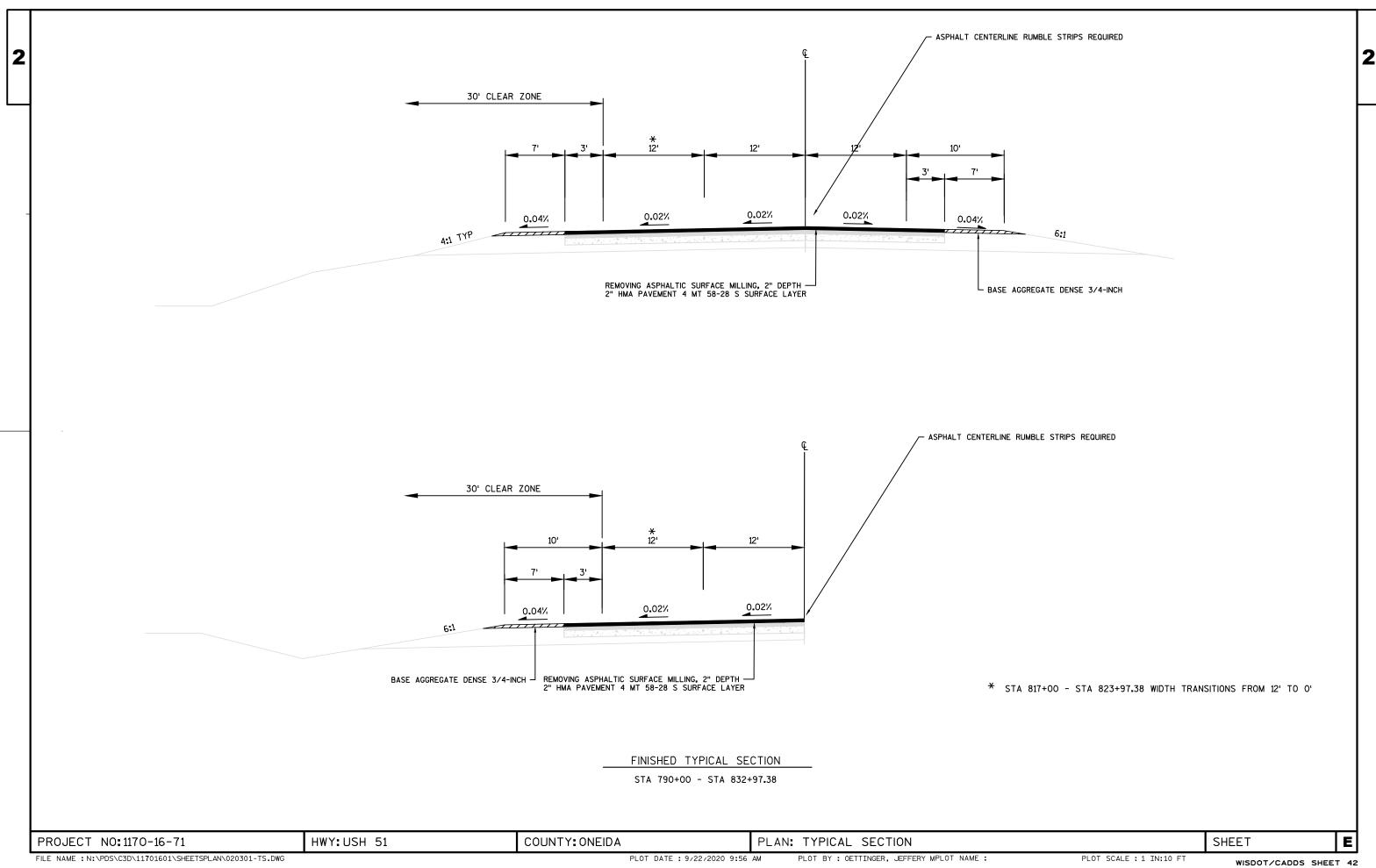
FILE NAME: N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT BY: 0ETTINGER, JEFFERY MPLOT NAME: PLOT SCALE: 1 IN:10 FT WISDOT/CADDS SHEET 42



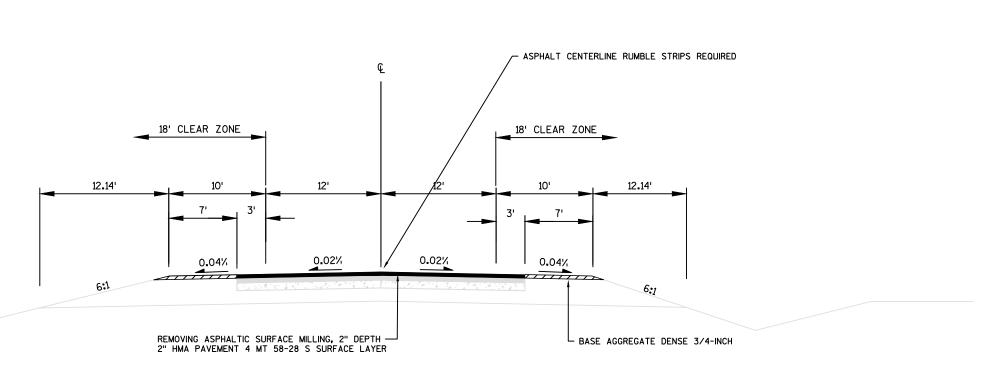
FINISHED TYPICAL SECTION STA 718+00 - STA 790+00

* STA 718+00 - STA 725+00 WIDTH TRANSITIONS FROM 0' TO 12'

HWY: USH 51 COUNTY: ONEIDA PROJECT NO: 1170-16-71 PLAN: TYPICAL SECTION SHEET E PLOT SCALE : 1 IN:10 FT



2



FINISHED TYPICAL SECTION
STA 832+97.38 - STA 849+00

PROJECT NO:1170-16-71 HWY:USH 51 COUNTY:ONEIDA PLAN: TYPICAL SECTION SHEET

FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG PLOT BY : 0ETTINGER, JEFFERY MPLOT NAME : PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42

2

CTH L

Q

10'

12'

12'

10'

7'

3'

0.02'/

0.02'/

0.04'/

4:1

REMOVING ASPHALTIC SURFACE MILLING, 2" DEPTH
2" HMA PAVEMENT 4 MT 58-28 S SURFACE LAYER

FINISHED TYPICAL SECTION

STA 8+98 - STA 10+00 (CTH L)

PROJECT NO:1170-16-71 HWY:USH 51 COUNTY:ONEIDA PLAN: TYPICAL SECTION SHEET

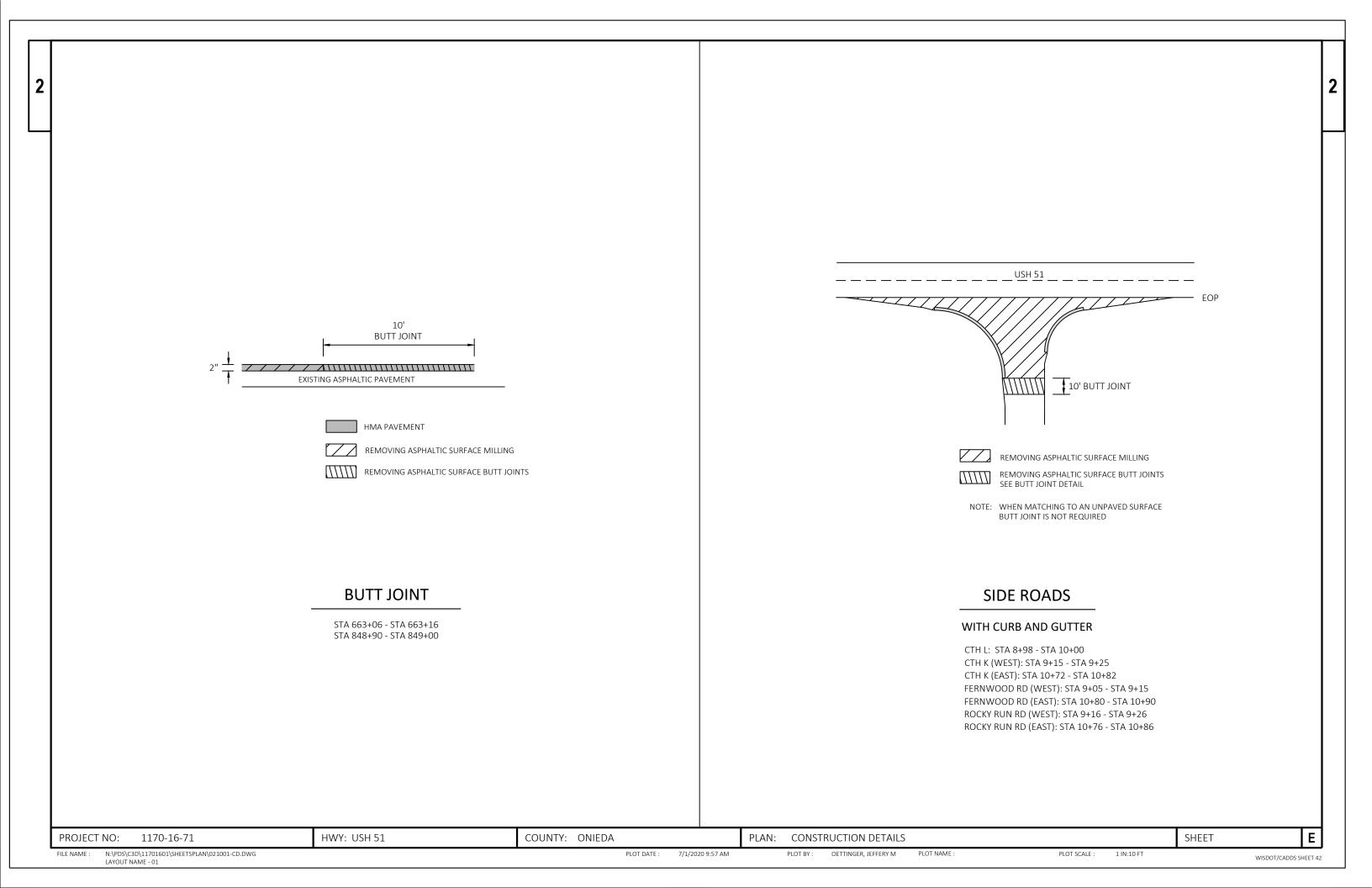
FILE NAME : N:\PDS\C3D\11701601\SHEETSPLAN\020301-TS.DWG

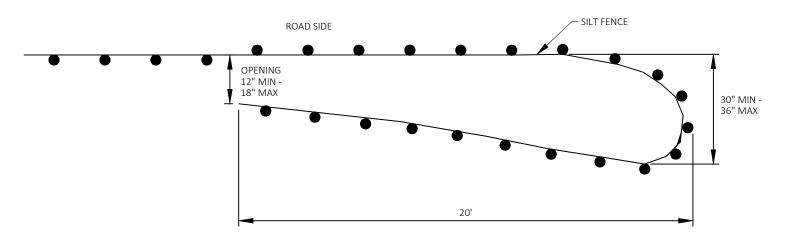
PLOT DATE: 9/22/2020 10:00 AM PLOT BY: OETTINGER, JEFFERY MPLOT NAME:

PLOT SCALE : 1 IN:10 FT

WISDOT/CADDS SHEET 42

E





PLAN VIEW

GENERAL NOTES:

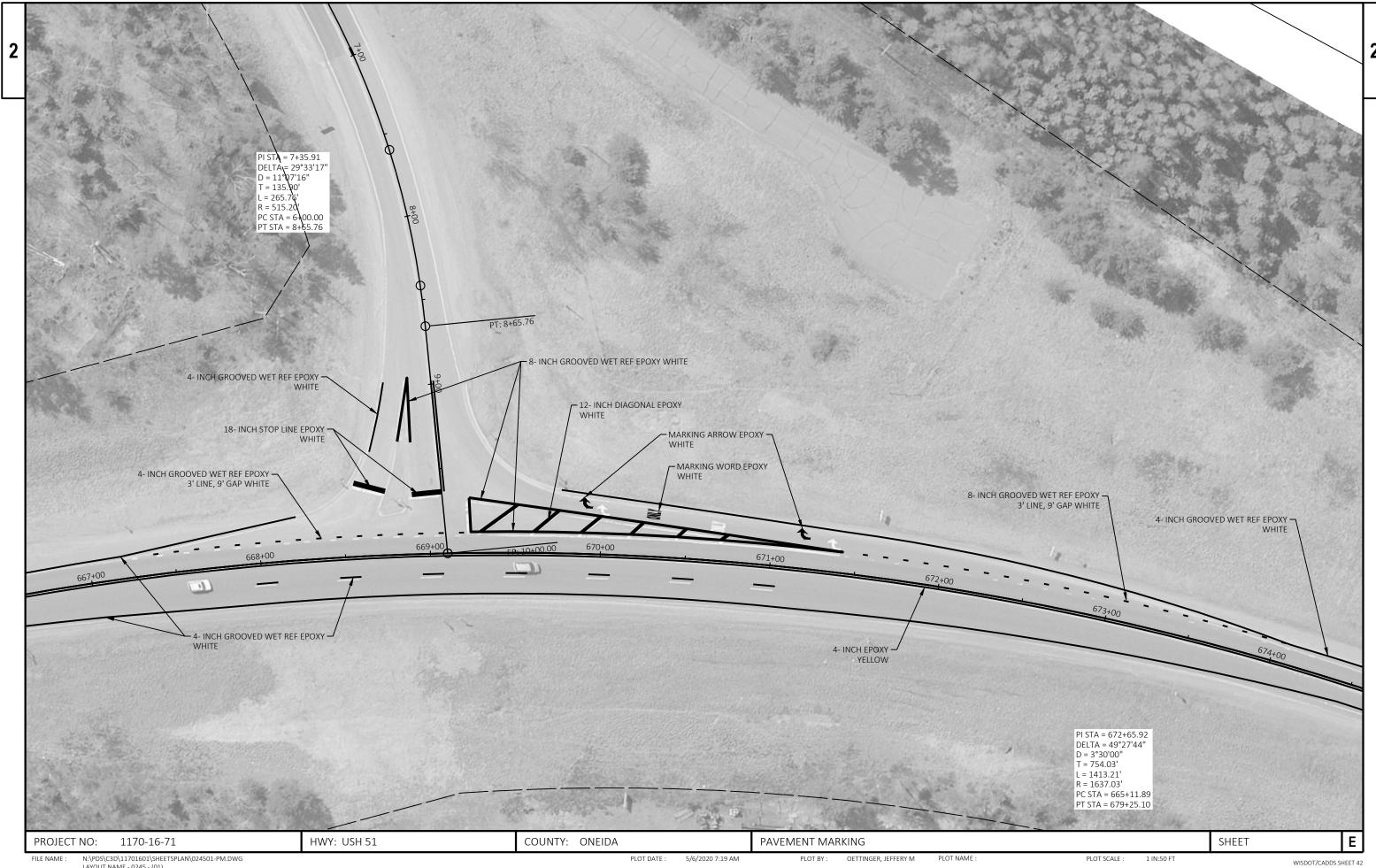
FOR THE TURN-AROUND SILT FENCE AND POSTS

- PLACE POSTS ON THE OUTSIDE OF THE TURN-AROUND
- TRENCH SILT FENCE ACCORDING TO SILT FENCE REQUIREMENTS

TEMPORARY SMALL ANIMAL TURN-AROUND

STA 707+50 LT STA 708+15 LT STA 708+45 LT STA 712+50 LT STA 707+50 RT STA 712+50 RT

E HWY: USH 51 COUNTY: ONEIDA SHEET PROJECT NO: 1170-16-71 PLAN: CONSTRUCTION DETAILS N:\PDS\C3D\11701601\SHEETSPLAN\021001-CD.DWG LAYOUT NAME - 02 PLOT DATE : 5/1/2020 6:17 AM PLOT BY: OETTINGER, JEFFERY M PLOT SCALE : 1 IN:10 FT WISDOT/CADDS SHEET 42



PLOT DATE : FILE NAME : 5/6/2020 7:19 AM 1 IN:50 FT LAYOUT NAME - 0245 - (01)

1170-16-71

Estimate Of Quantities

					1170-16-71	
Line	Item	Item Description	Unit	Total	Qty	
0002	204.0115	Removing Asphaltic Surface Butt Joints	SY	313.000	313.000	
0004	204.0120	Removing Asphaltic Surface Milling	SY	82,815.000	82,815.000	
0006	211.0100	Prepare Foundation for Asphaltic Paving (project) 01. 1170-16-71	LS	1.000	1.000	
8000	213.0100	Finishing Roadway (project) 01. 1170-16-71	EACH	1.000	1.000	
0010	305.0110	Base Aggregate Dense 3/4-Inch	TON	2,452.000	2,452.000	
0012	455.0605	Tack Coat	GAL	5,797.000	5,797.000	
0014	460.2000	Incentive Density HMA Pavement	DOL	6,100.000	6,100.000	
0016	460.6224	HMA Pavement 4 MT 58-28 S	TON	9,523.000	9,523.000	
0018	465.0110	Asphaltic Surface Patching	TON	50.000	50.000	
0020	465.0475	Asphalt Centerline Rumble Strips 2-Lane Rural	LF	15,855.000	15,855.000	
0022	618.0100	Maintenance And Repair of Haul Roads (project) 01. 1170-16-71	EACH	1.000	1.000	
0024	619.1000	Mobilization	EACH	1.000	1.000	
0026	624.0100	Water	MGAL	492.000	492.000	
0028	628.1504	Silt Fence	LF	1,090.000	1,090.000	
0030	628.1520	Silt Fence Maintenance	LF	1,090.000	1,090.000	
0032	628.1905	Mobilizations Erosion Control	EACH	2.000	2.000	
0034	628.1910	Mobilizations Emergency Erosion Control	EACH	2.000	2.000	
0036	629.0210	Fertilizer Type B	CWT	5.300	5.300	
0038	630.0130	Seeding Mixture No. 30	LB	78.000	78.000	
0040	630.0500	Seed Water	MGAL	180.000	180.000	
0042	642.5001	Field Office Type B	EACH	1.000	1.000	
0044	643.0300	Traffic Control Drums	DAY	819.000	819.000	
0046	643.0420	Traffic Control Barricades Type III	DAY	57.000	57.000	
0048	643.0705	Traffic Control Warning Lights Type A	DAY	114.000	114.000	
0050	643.0900	Traffic Control Signs	DAY	550.000	550.000	
0052	643.5000	Traffic Control	EACH	1.000	1.000	
0054	646.1020	Marking Line Epoxy 4-Inch	LF	23,131.000	23,131.000	
0056	646.1040	Marking Line Grooved Wet Ref Epoxy 4-Inch	LF	38,823.000	38,823.000	
0058	646.3040	Marking Line Grooved Wet Ref Epoxy 8-Inch	LF	1,772.000	1,772.000	
0060	646.5020	Marking Arrow Epoxy	EACH	2.000	2.000	
0062	646.5120	Marking Word Epoxy	EACH	1.000	1.000	
0064	646.6120	Marking Stop Line Epoxy 18-Inch	LF	52.000	52.000	
0066	646.7120	Marking Diagonal Epoxy 12-Inch	LF	86.000	86.000	
0068	648.0100	Locating No-Passing Zones	MI	3.520	3.520	
0070	649.0105	Temporary Marking Line Paint 4-Inch	LF	21,421.000	21,421.000	
0072	649.0120	Temporary Marking Line Epoxy 4-Inch	LF	20,658.000	20,658.000	
0074	650.8000	Construction Staking Resurfacing Reference	LF	18,594.000	18,594.000	
0076	650.9910	Construction Staking Supplemental Control (project) 01		1.000	1.000	

Estimate Of Quantities Page 2

					1170-16-71
Line	Item	Item Description	Unit	Total	Qty
		1170-16-71			
0078	740.0440	Incentive IRI Ride	DOL	7,042.000	7,042.000
0800	ASP.1T0A	On-the-Job Training Apprentice at \$5.00/HR	HRS	1,200.000	1,200.000
0082	ASP.1T0G	On-the-Job Training Graduate at \$5.00/HR	HRS	600.000	600.000
0084	SPV.0180	Special 01. Protective Thermoplastic Coating At Snowmobile Trail Crossings	SY	107.000	107.000

305.0110

BASE

AGGREGATE

DENSE

3/4-INCH

(TON)

1208

1233

3

3

3

3

2452

WATER

624.0100

(MGAL)

242

247

492

82815

HMA PAVEMENT					460.6224	
					HMA	465.0110
				455.0605	PAVEMENT	ASPHALTIC
				TACK	4 MT	SURFACE
				COAT	58-28 S	PATCHING
STATION STA	ATION	LOCATION	COMMENTS	(GAL)	(TON)	(TON)
663+06 - 84	9+00	USH 51	MAINLINE, TURN LANES, PAVED SHOULDERS	5618	9229	
CTH L		LT	SIDE ROAD WITHIN C&G LIMITS	43	70	_
CTH K (WEST)		LT	SIDE ROAD WITHIN C&G LIMITS	21	35	
CTH K (EAST)		RT	SIDE ROAD WITHIN C&G LIMITS	22	36	
FERNWOOD ROAD (WE	EST)	LT	SIDE ROAD WITHIN C&G LIMITS	23	38	
FERNWOOD ROAD (EA	ST)	RT	SIDE ROAD WITHIN C&G LIMITS	24	39	
ROCKY RUN ROAD (WE	EST)	LT	SIDE ROAD WITHIN C&G LIMITS	23	38	
ROCKY RUN ROAD (EA	AST)	RT	SIDE ROAD WITHIN C&G LIMITS	23	38	
UNDISTRIBUTED			AS NEEDED			50
			TOTALS:	5797	9523	50

TOTALS:

313

RUMBLE STRIPS		465.0475 ASPHALTIC	MAINTENANCE AND REPAIR OF	HAUL ROADS
		CENTERLINE RUMBLE		618.0100
		STRIP		MAINTENANCE
		2-LANE		AND
		RURAL		REPAIR
STATION - STATION	LOCATION	(LF)		OF
671 + 70 - 687 + 00	CL	1530		HAUL
691+70 - 701+58	CL	988		ROADS
703+58 - 705+68	CL	210		
707+58 - 735+20	CL	2762		(PROJECT)
735+35 - 744+64	CL	929		1170-16-71
746+64 - 773+12	CL	2648	LOCATION	(EACH)
777+12 - 826+92	CL	4980	PROJECT LIMITS	1
830+92 - $849+00$	CL	1808	- TROJECT EIWITS	
	TOTAL:	15855		I

PROJECT NO: 1170-16-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET **E**

FILE NAME: N:\PDS\C3D\11701601\SHEETSPLAN\030201-MQ.DWG PLOT DATE: 11/24/2020 7:51 AM PLOT BY: SMITH, THEODORE A PLOT NAME: 1" = 1'
WISDOT/CADDS SHEET 42

1
-5
•

OSION CONTROL								628.191	0	<u>LANDSC</u>	<u>APING</u>				629.0210	630.0130 SEEDING	630.0500
						628.1520	628.1905	MOBILIZATI	ONS						FERTILIZER	MIXTURE	SEED
				6	28.1504	SILT	MOBILIZATIONS	EMERGEN	CY						TYPE B	NO. 30	WATER
					SILT	FENCE	EROSION	EROSION	N	STATIC	ON ST	TATION	LOCATI	ION	(CWT)	(LB)	(MGAL)
					FENCE	MAINTENANCE	CONTROL	CONTRO)L	663+0	06 – 84	49+00 INS	SLOPE, LT SHO	ULDER	2.5	70.8	88.3
ATION STATION	LOCATION	l COM	MMENTS		(LF)	(LF)	(EACH)	(EACH)		663+0	06 - 84	49+00 INS	SLOPE, RT SHO	DULDER	2.6	6.0	90.1
ECT LIMITS	USH 51	AS I	NEEDED		_	-	2	2		UNDISTR	RIBUTED				0.2	1.2	1.6
7+50 - 708+15	30' LT	TEN	MP TURTLE FEI	NCING	105	105	-	-							5.3	78	180
8+45 - 712+50	30' LT	TEN	MP TURTLE FEI	NCING	445	445	-	-									
7+50 - 712+50	30' RT	TEN	MP TURTLE FEI	NCING	540	540	-	-									
			T	OTALS:	1090	1090	2	2									
FIELD OFFICE TYPE	<u>B</u>						PERMANEN	T PAVEMEN	NT MARKING		646.1040	646.3040					
											MARKING	MARKING			646.6120		
	642.500	1								646.1020	LINE	LINE			MARKING	646.7120	
	FIELD									MARKING	GROOVED	GROOVED	646.5020	646.5120	STOP	MARKING	
	OFFICE									LINE	WET REF	WET REF	MARKING	MARKING	LINE	DIAGONAL	648.010
	TYPE B									EPOXY	EPOXY	EPOXY	ARROW	WORD	EPOXY	EPOXY	LOCATIN
LOCATION	(LS)									4-INCH	4-INCH	8-INCH	EPOXY	EPOXY	18-INCH	12- INCH	NO-PASSI
PROJECT LIMITS	1									YELLOW	WHITE	WHITE	WHITE	("ONLY")	WHITE	WHITE	ZONES
	1						STATION -	STATION	LOCATION	(LF)	(LF)	(LF)	(EACH)	(EACH)	(LF)	(LF)	(MI)
							USH 51		PROJECT LIMITS	-	-	-	-	-	-	-	3.52
							663+06 -	- 667+90	CL	605	982	-	-	_	_	_	_
							667+90 -	675+95	CL	1610	1578	528	2	1	_	86	_
							675+95 -	687+10	CL	1394	2228	77	-	-	-	-	-
							687+10 -	710+85	CL	594	4484	307	-	_	_	_	_
TRAFFIC CONTROL							710+85 -	715+33	CL	560	898	_	_	-	_	_	_
			643.0705				715+33 -	736+18	CL	4170	4426	_	_	-	-	_	-
		643.0420	TRAFFIC				736+18 -	753+00	CL	2103	3773	-	_	_	_	_	_
64	13.0300	TRAFFIC	CONTROL	643.090	00		753+00 -	772+90	CL	3980	4481	46	-	_	_	_	_
Т	RAFFIC	CONTROL	WARNING	TRAFFIC	C 643.5	000	772+90 -	829+61	CL	7089	12062	538	_	-	-	_	_

PROJECT LIMITS	819	57	114	550	1	C	ΓΗ K (EAST)	RT	40	-	-	-	-	15	-	-
TOTALS :	819	57	114	550	1			TOTALS:	23131	38823	1772	2	1	52	86	3.52

CL

CL

829+61 - 845+00

845+00 - 849+00

CTH L (WEST)

E PROJECT NO: 1170-16-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET FILE NAME : C:\CIVIL 3D PROJECTS\11701601\SHEETSPLAN\030201-MQ.DWG LAYOUT NAME - 02 PLOT SCALE : 1" = 1' PLOT DATE : 9/23/2020 7:15 AM PLOT BY: SMITH, THEODORE A PLOT NAME : WISDOT/CADDS SHEET 42

LOCATION

CONTROL BARRICADES

TYPE III

(DAY)

DRUMS

(DAY)

LIGHTS

TYPE A

(DAY)

CONTROL TRAFFIC

CONTROL

(EACH)

SIGNS

(DAY)

200

76

37

3074

800

37

385

475

126

3

TEMPORARY	PAV	EMENT MARK	<u>ING</u>			
				649.0105	649.0105	649.0120
				TEMPORARY	TEMPORARY	TEMPORARY
				MARKING	MARKING	MARKING
				LINE	LINE	LINE
				PAINT	PAINT	EPOXY
				4-INCH	4-INCH	4-INCH
				YELLOW	WHITE	YELLOW
STATION	-	STATION	LOCATION	(LF)	(LF)	(LF)
663+06	-	667+90	CL	523	-	523
667 + 90	-	675 + 95	CL	1610	_	1610
675 + 95	-	687 + 10	CL	1204	_	1204
687 + 10	-	710 + 85	CL	190	_	190
710 + 85	-	715 + 23	CL	484	-	484
715 + 23	-	736 + 18	CL	4170	-	4170
736 + 18	-	753 + 00	CL	1817	-	1817
753 + 00	-	772 + 90	CL	3980	-	3980
772 + 90	-	829+61	CL	6125	-	6125
829 + 61	-	845 + 00	CL	123	-	123
845+00	_	849+00	CL	432	_	432
667+60 (NB)	-	671+10 (NB)	LANE LINES	-	27	_
725+00 (SB)	-	817+00 (SB)	LANE LINES	-	736	-
		<u> </u>	SUB-TOTALS:	20658	763	20658
			TOTALS:		21421	20658

TEMPORARY PAINT ON MILLED SURFACES.

TEMPORARY EPOXY AT CL ON NEW HMA, PRIOR TO CL RUMBLE STRIPS INSTALLATION. PERMANENT MARKING APPLIED TO CL AFTER CUTTING RUMBLE STRIPS.

CONSTRUCTION STAKING

650.9910 CONSTRUCTION 650.8000 STAKING CONSTRUCTION SUPPLEMENTAL CONTROL STAKING (PROJECT) RESURFACING REFERENCE 1170-16-71 STATION STATION (LF) (LS) 18594 663 + 06849 + 001 18594

PROTECTIVE THERMOPLASTIC COATING

SPV.0180
PROTECTIVE THERMOPLASTIC
COATING AT SNOWMOBILE
TRAIL CROSSINGS
(SY)

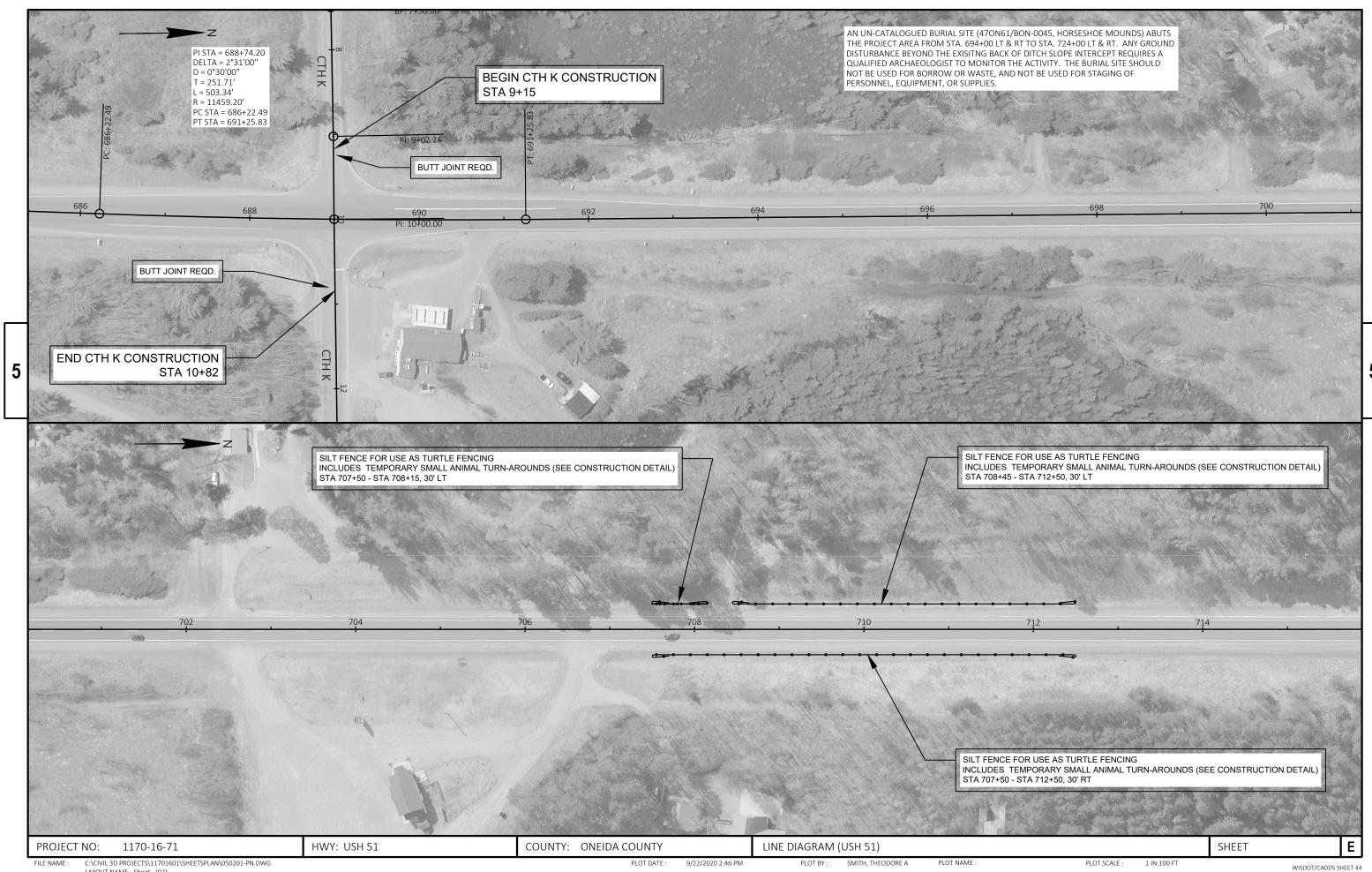
STATION		STATION	LOCATION	(SY)
735 + 20	-	735+35	USH 51 ROADWAY WIDTH	107
			TOTALS:	107

PROJECT NO: 1170-16-71 HWY: USH 51 COUNTY: ONEIDA MISCELLANEOUS QUANTITIES SHEET **E**

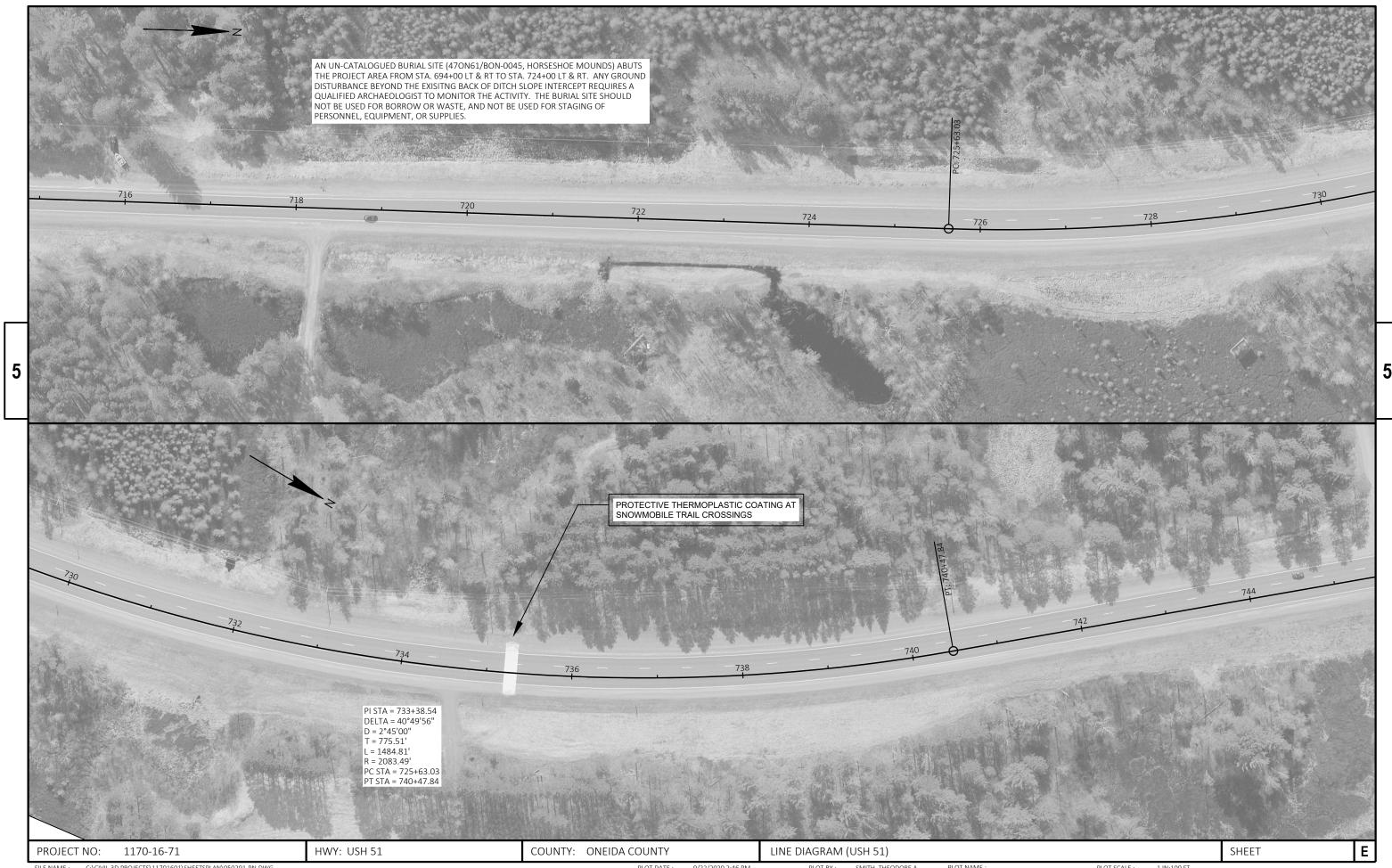
FILE NAME: C\CIVIL 3D PROJECTS\11701601\SHEETSPLAN\030201-MQ.DWG PLOT DATE: 9/23/2020 7:16 AM PLOT BY: SMITH, THEODORE A PLOT NAME: 1" = 1' WISDOT/CADDS SHEET 42 LAYOUT NAME - 03



FILE NAME : C:\CIVIL 3D PROJECTS\11701601\SHEETSPLAN\050201-PN.DWG PLOT DATE : 9/22/2020 2:46 PM LAYOUT NAME - Sheet - (01)

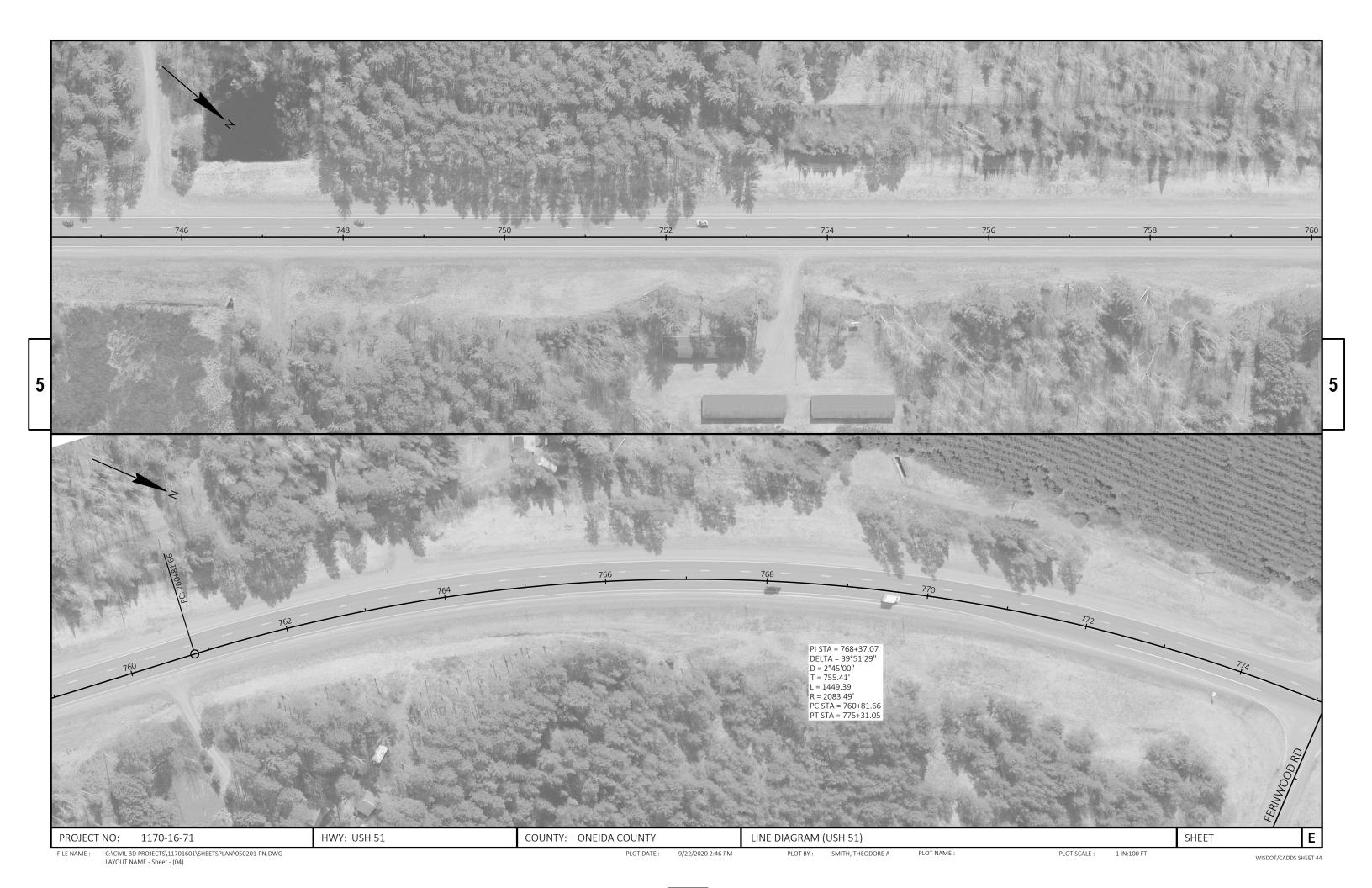


LAYOUT NAME - Sheet - (02)



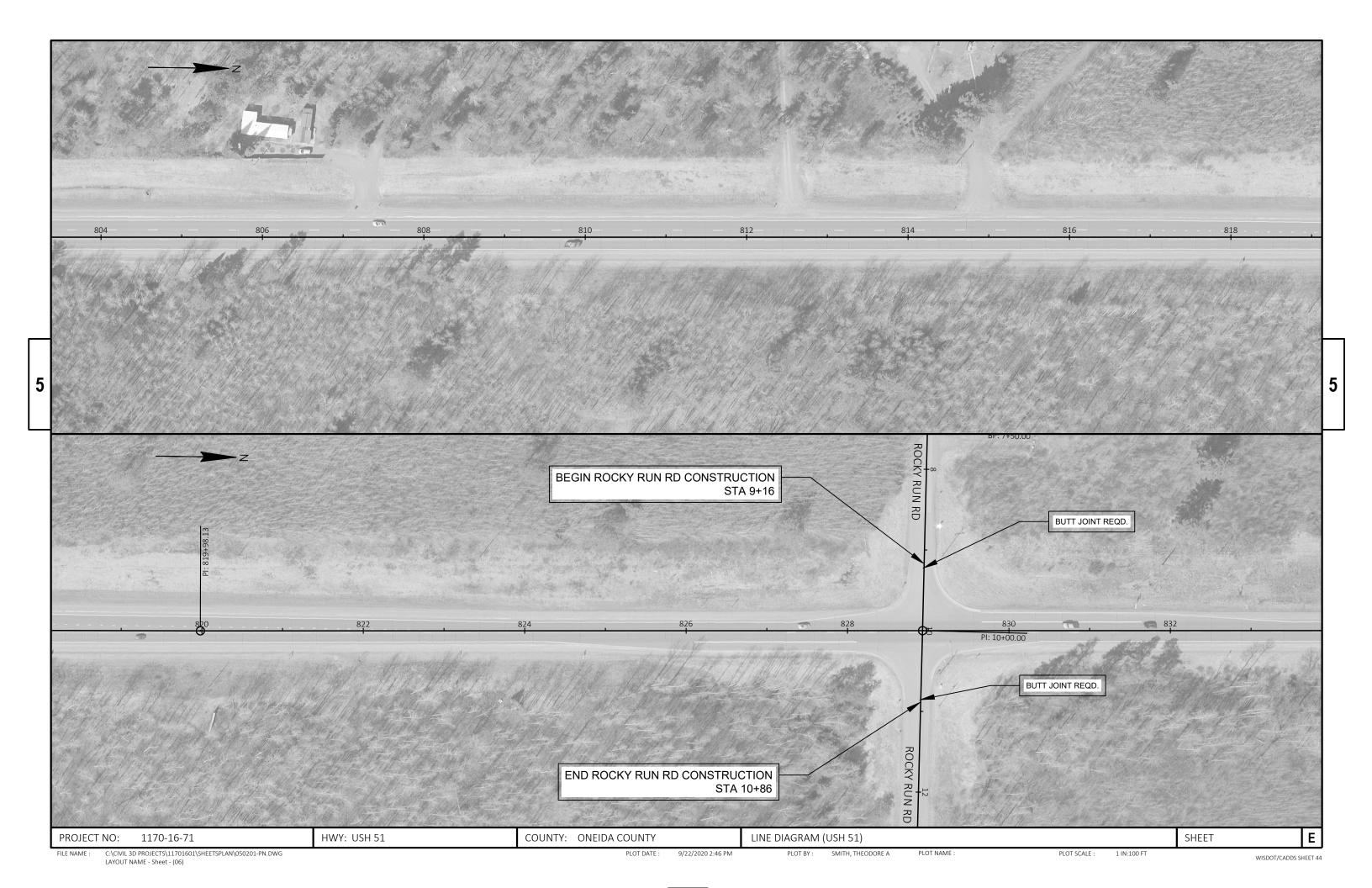
E NAME : C:\CIVIL 3D PROJECTS\11701601\SHEETSPLAN\050201-PN.DWG PLOT DATE : 9/22/2020 2:46 PM PLOT BY : SMITH, THEODORE A PLOT NAME : 1 IN:100 FT WISDOT/CADDS SHEET 44

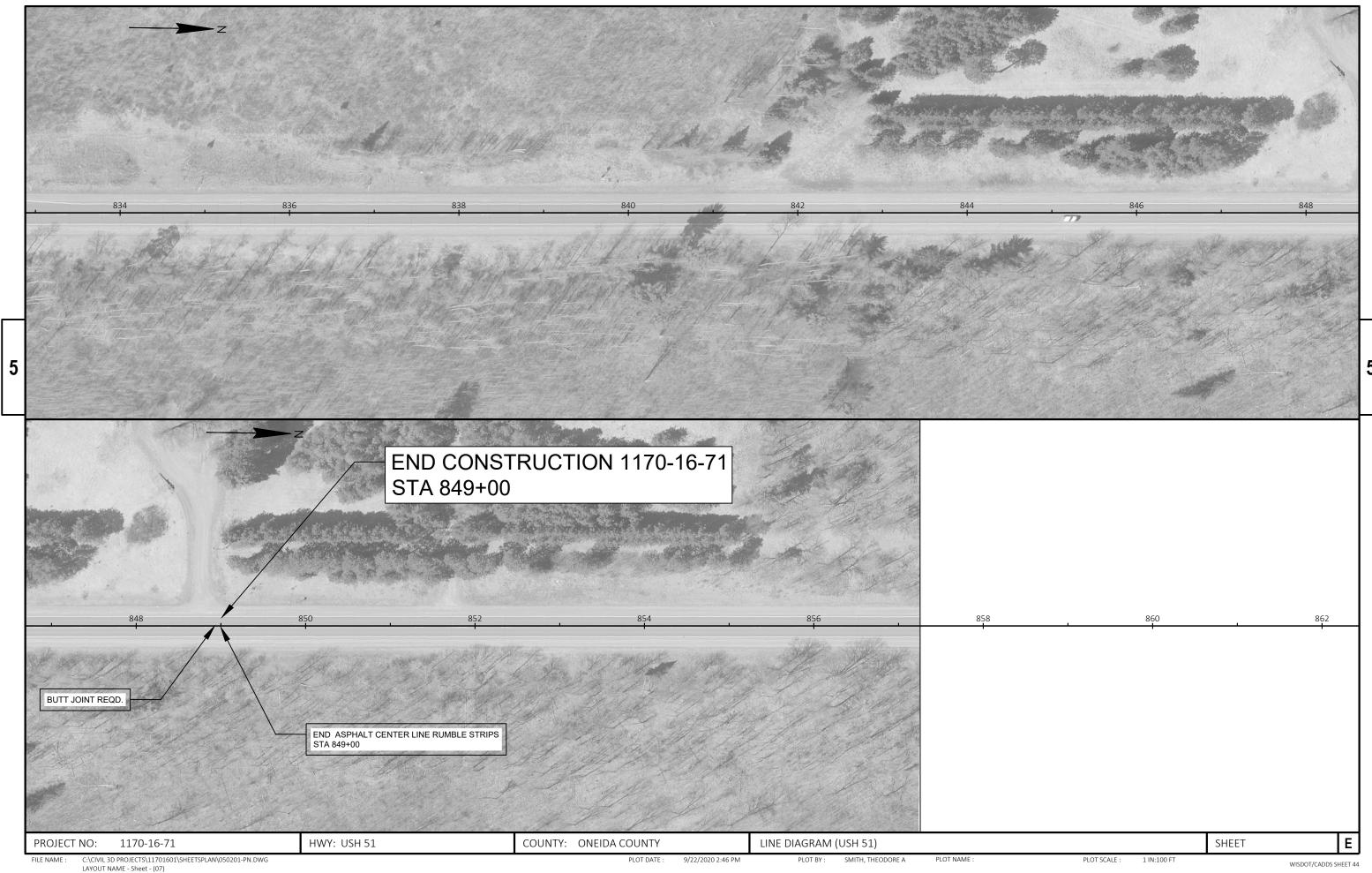
LAYOUT NAME - Sheet - (03)





LAYOUT NAME - Sheet - (05)





Standard Detail Drawing List

08E09-06 13A11-03A 13A11-03B	SILT FENCE 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING 2-LANE RURAL CENTER LINE RUMBLE STRIP, MILLING
14B29-01	SAFETY EDGE
15C04-05	TRAFFIC CONTROL, ADVANCE WARNING SIGNS 45 M.P.H. OR GREATER TWO-WAY UNDIVIDED ROAD OPEN TO TRAFFIC
15C07-15B	PAVEMENT MARKING WORDS
15C07-15C	PAVEMENT MARKING ARROWS
15C08-20A	LONGITUDINAL MARKING (MAINLINE)
15C08-20B	PAVEMENT MARKING (TURN LANES)
15С11-07В	CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS
15C12-07	TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION
15C19-06A	MOVING PAVEMENT MARKING OPERATION TWO-LANE TWO-WAY ROADWAY
15С19-06В	MOVING PAVEMENT MARKING OPERATION MULTI-LANE UNDIVIDED ROADWAY
15C33-04	STOP LINE AND CROSSWALK PAVEMENT MARKING
15C35-04A	PAVEMENT MARKING (INTERSECTIONS)
15С35-04В	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15C35-04C	PAVEMENT MARKING AND SIGNING (CLIMBING LANE & PASSING LANE)
15D28-04	TRAFFIC CONTROL, WORK ON SHOULDER OR PARKING LANE, UNDIVIDED ROADWAY
15D38-02A	TEMPORARY TRAFFIC CONTROL SIGN MOUNTING
15D38-02B	ATTACHMENT OF SIGNS TO POSTS
15D39-02	TRAFFIC CONTROL, DROP-OFF SIGNING
15D44-02	TRAFFIC CONTROL, SIGNING ON ROADWAYS WITH MILLED SURFACES

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TYPICAL APPLICATION OF SILT FENCE

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PLAN VIEW SILT FENCE AT MEDIAN SURFACE DRAINS



GENERAL NOTES

DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

- \bigcirc HORIZONTAL BRACE REQUIRED WITH 2" X 4" WOODEN FRAME OR EQUIVALENT AT TOP OF POSTS.
- ② FOR MANUAL INSTALLATIONS THE TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
- 3 WOOD POSTS SHALL BE A MINIMUM SIZE OF 11/8" X 11/8" OF OAK OR HICKORY.
- 4) SILT FENCE TO EXTEND ACROSS THE TOP OF THE PIPE.
- (5) CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS; A) OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK THE END OF EACH SILT FENCE LENGTH.



TRENCH DETAIL



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

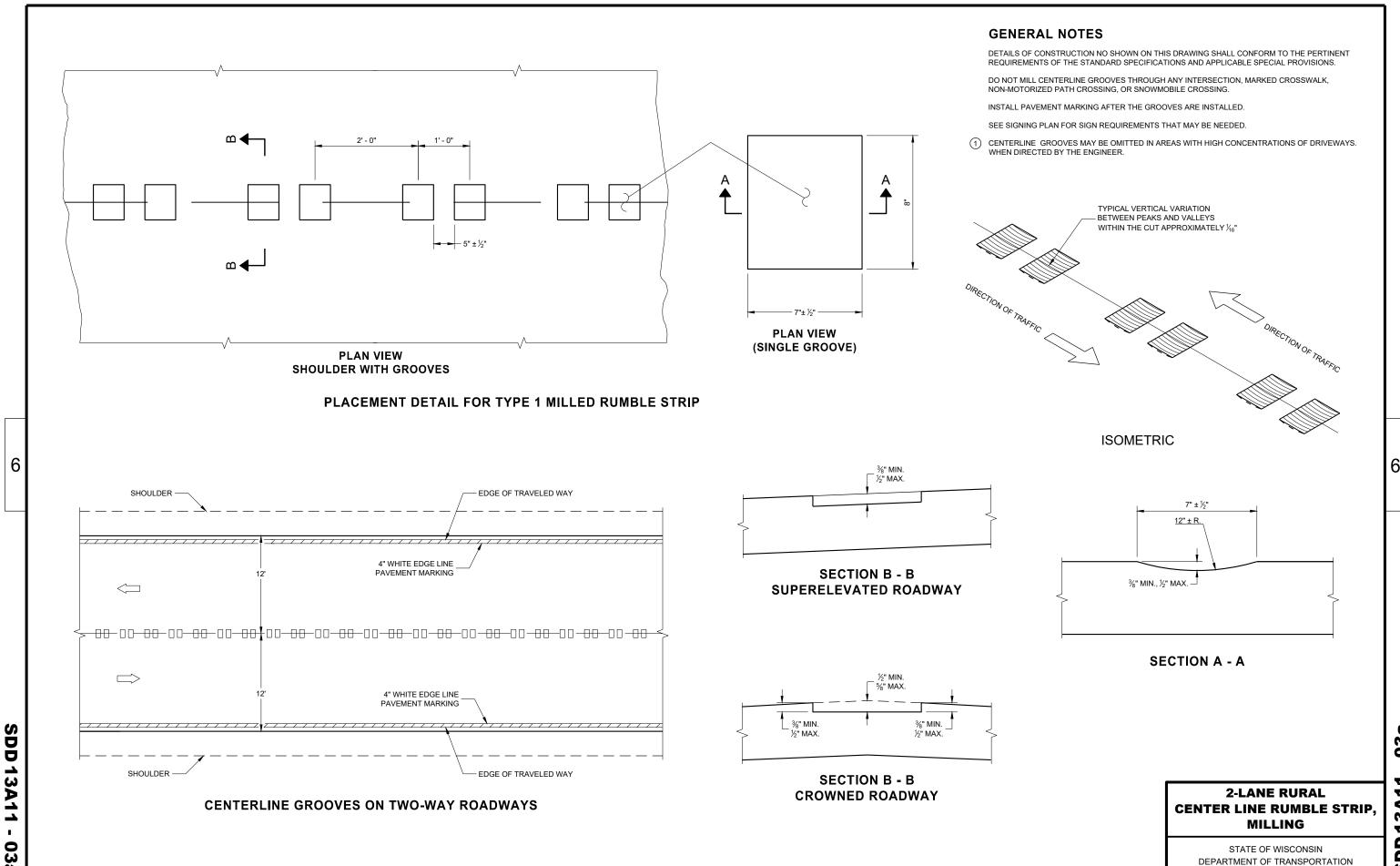
APPROVED
4-29-05 /S/ Beth Cannestra

29-05 /S/ Beth Cannestra
DATE CHIEF ROADWAY DEVELOPMENT ENGINEER

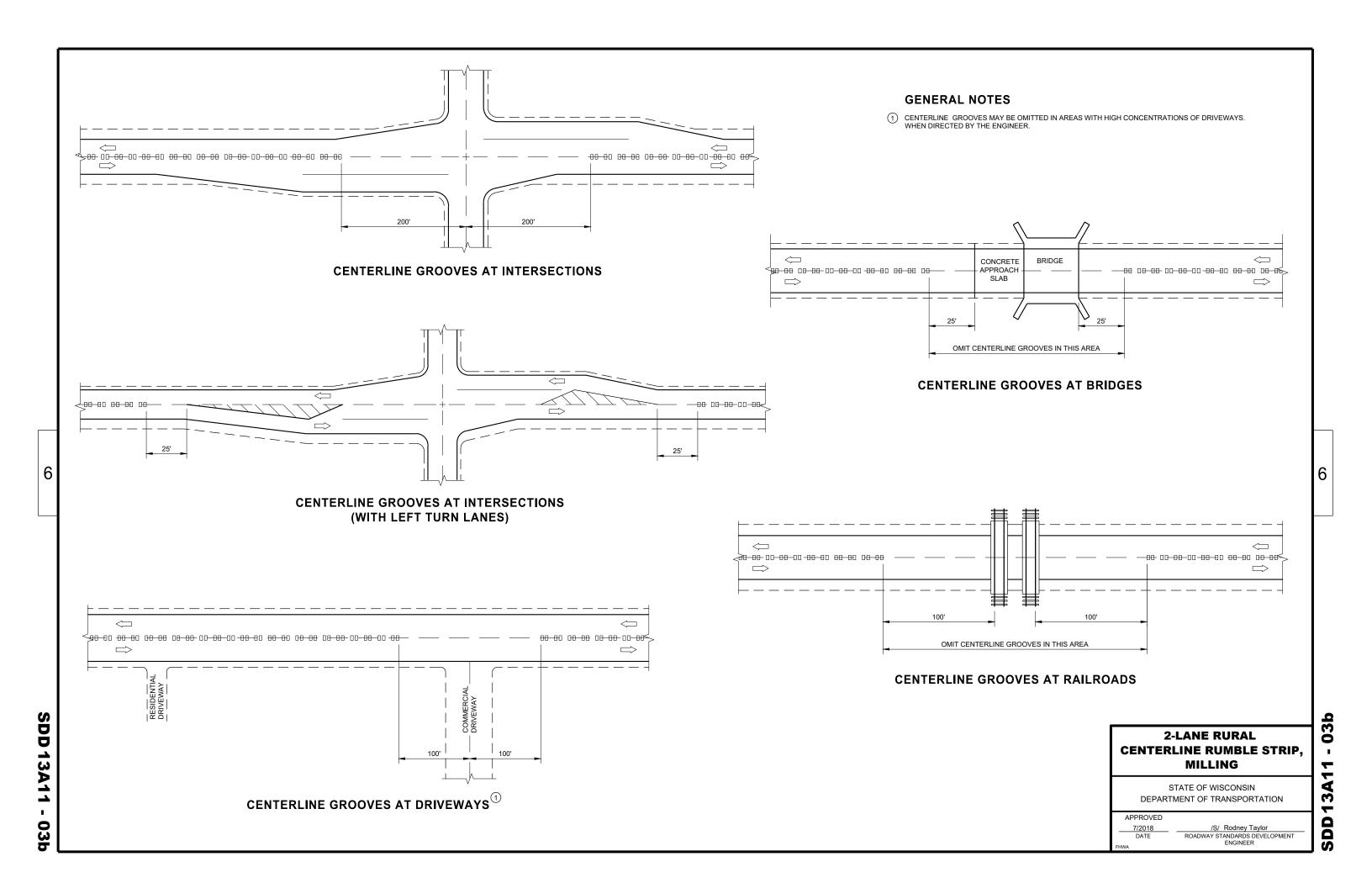
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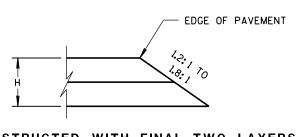
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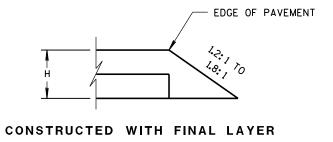
D.D. 8 E 9



SDD



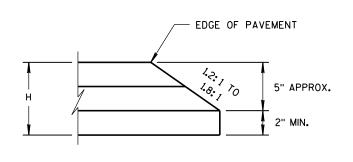


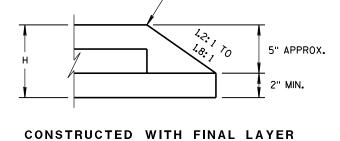


FOR H 5" OR LESS

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H 5" OR LESS





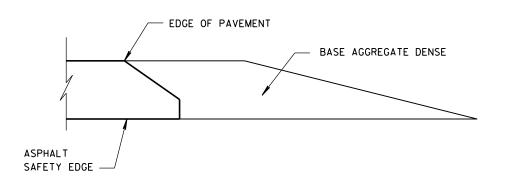
FOR H GREATER THAN 5"

EDGE OF PAVEMENT

CONSTRUCTED WITH FINAL TWO LAYERS

FOR H GREATER THAN 5"

HMA PAVEMENT AND HMA OVERLAYS



FINISHED SHOULDER AGGREGATE PLACEMENT

SAFETY EDGE SM

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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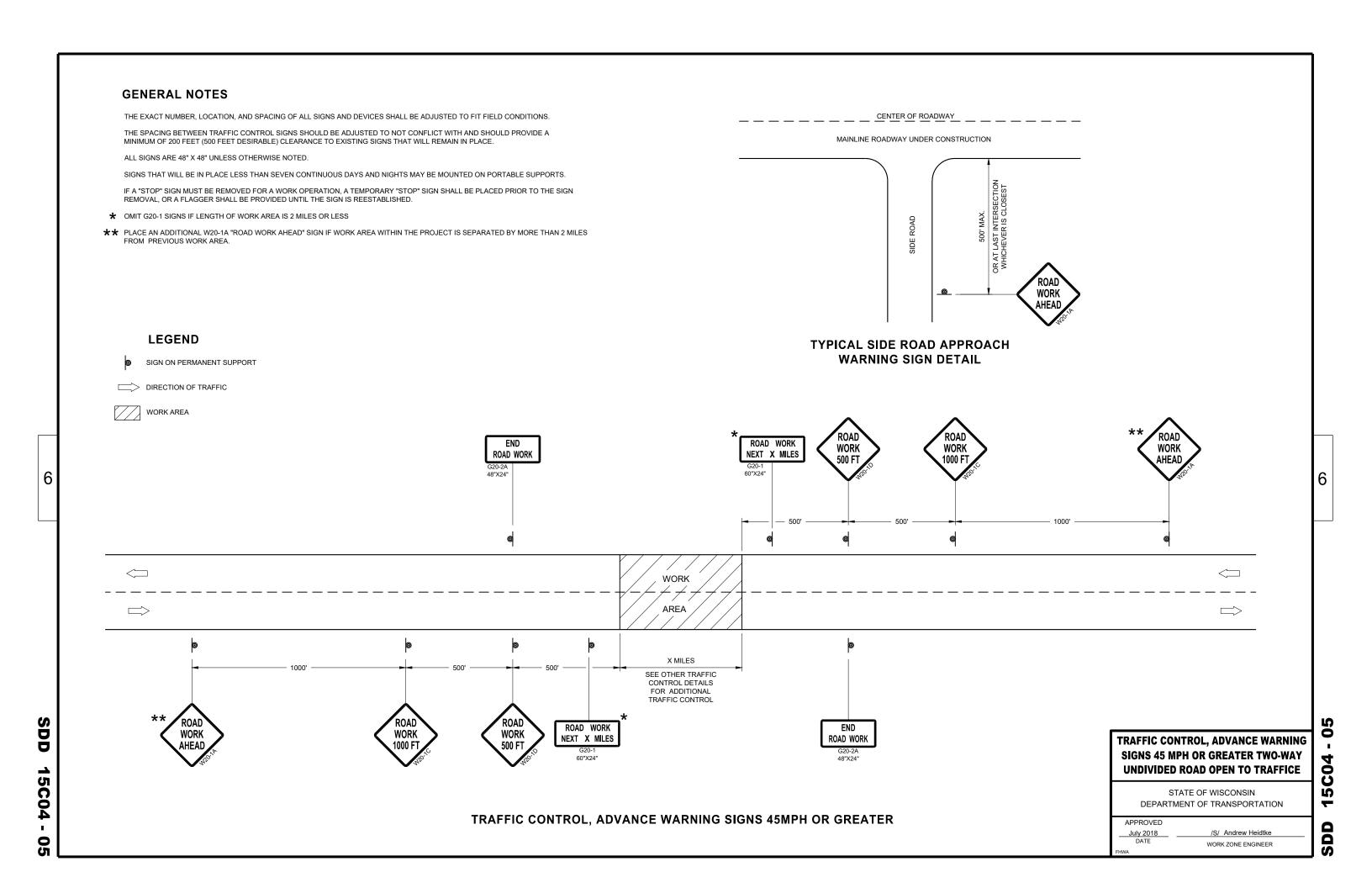
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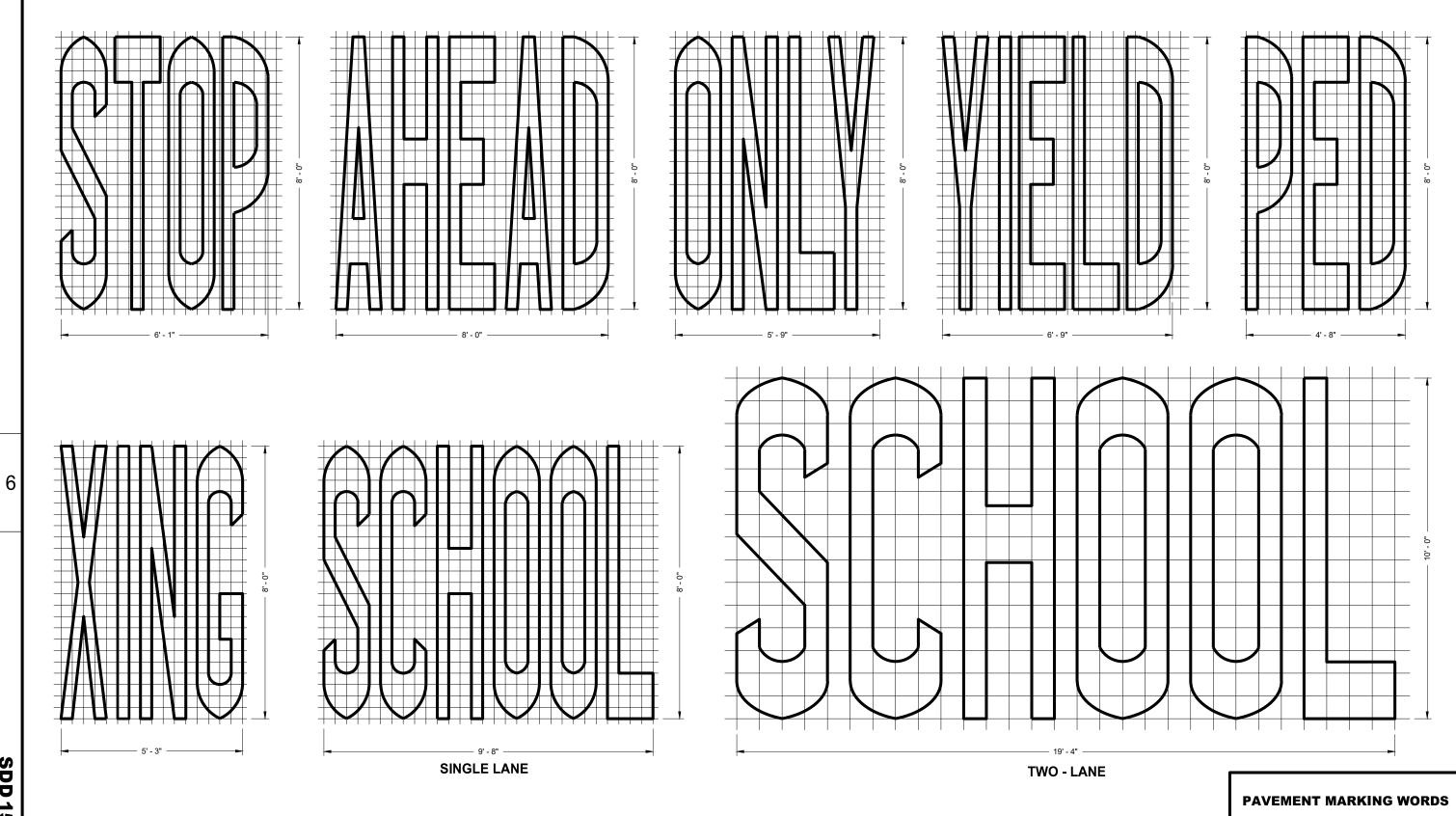
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APPROVED

DATE ROADWAY STANDARDS DEVELOPMENT ENGINEER

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SDD 15C07 15b

GENERAL NOTES

DETAILS OF INSTALLATION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE SPECIAL PROVISIONS.

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED

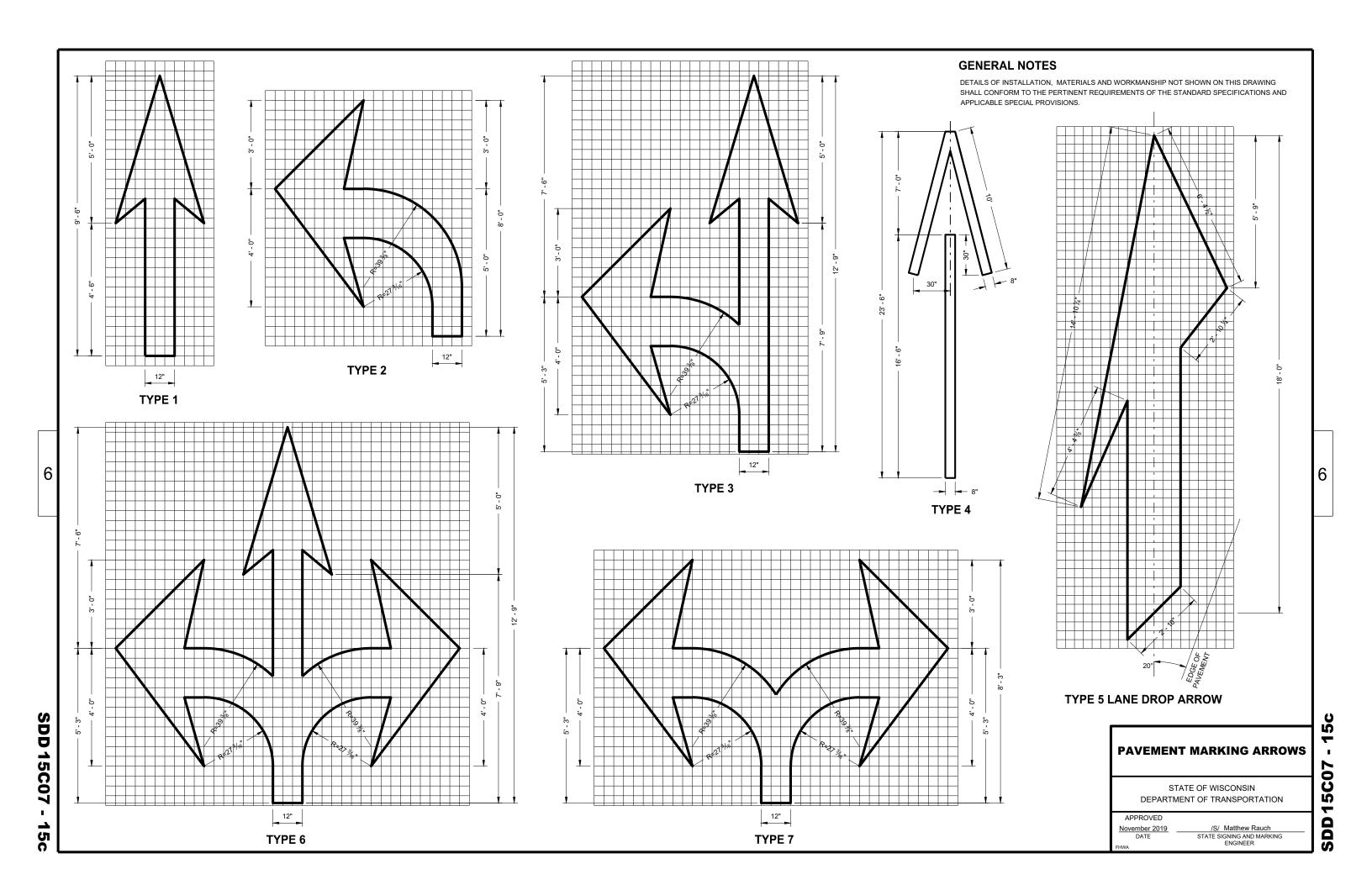
November 2019 ____

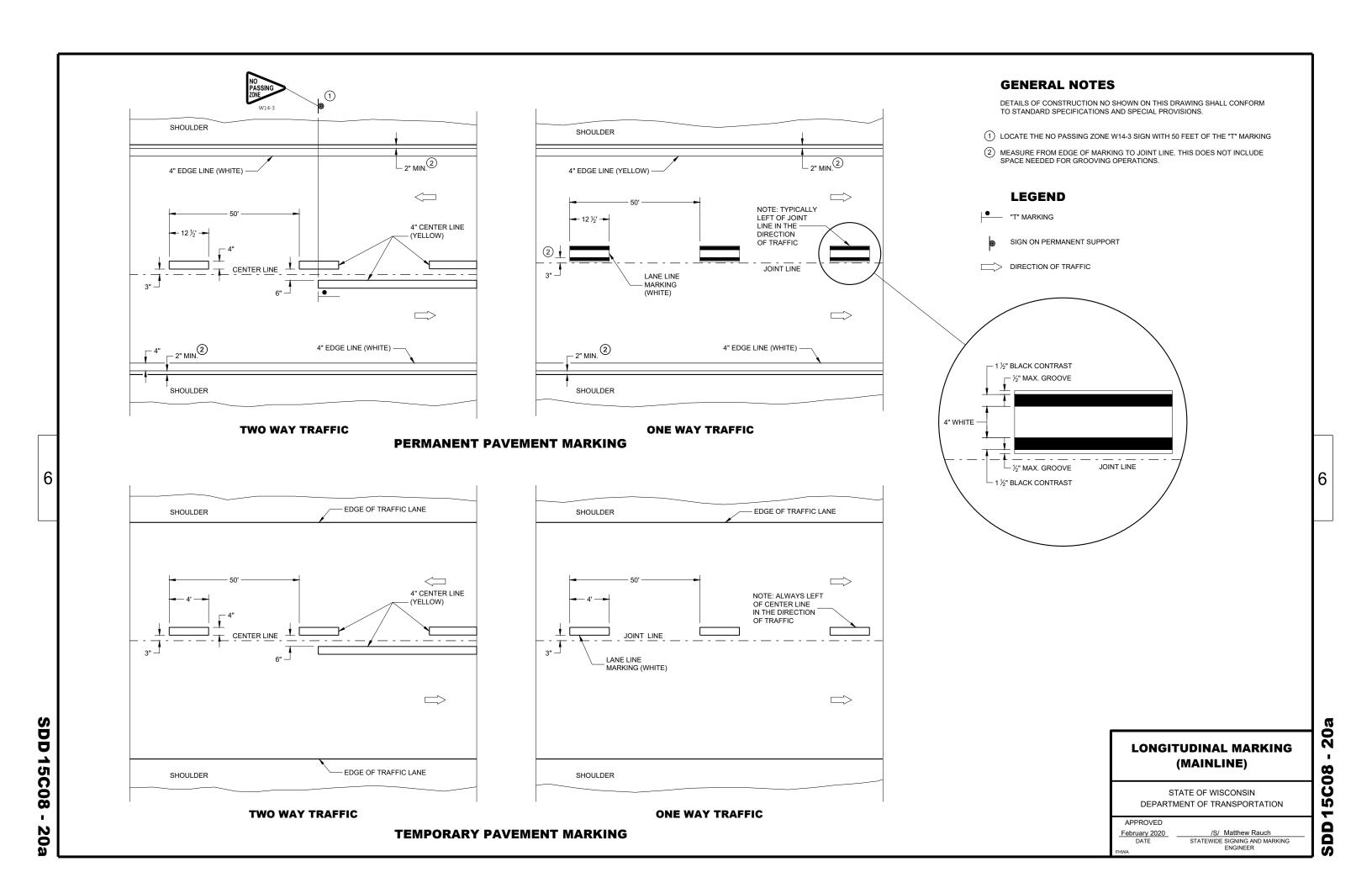
/S/ Matthew Rauch
STATE SIGNING AND MARKING
ENGINEER

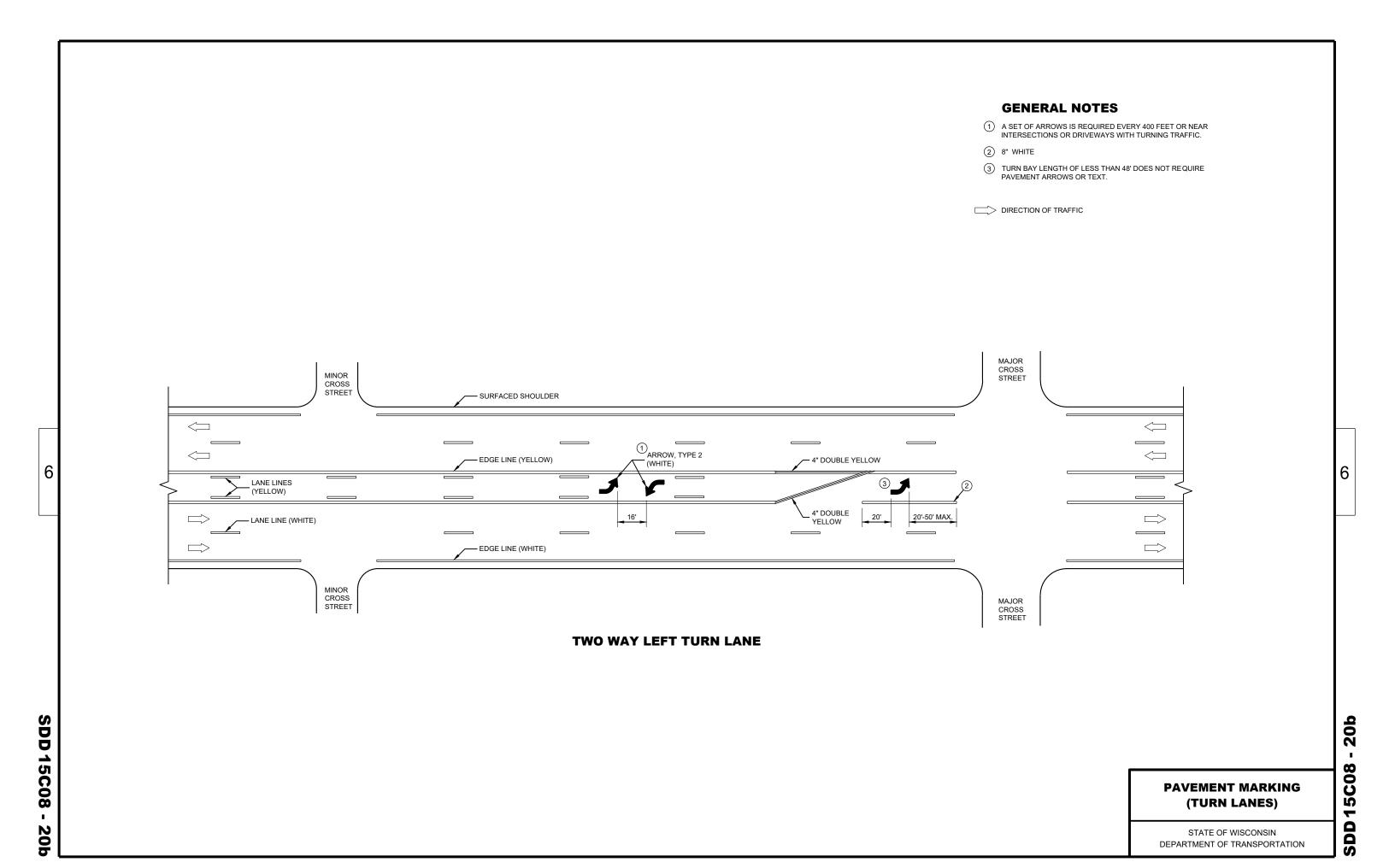
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SDD15C07

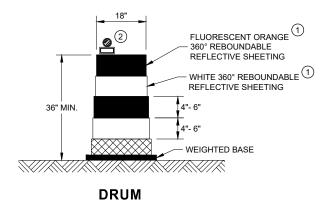


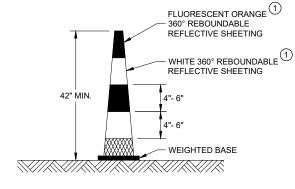




GENERAL NOTES

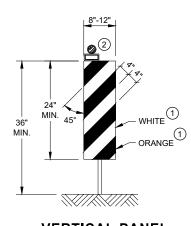
- (1) REFLECTIVE SHEETING SHALL FOLLOW THE REQUIREMENTS IN THE APPROVED PRODUCTS LISTING FOR SIGN SHEETING.
- (2) LOCATION OF WARNING LIGHTS WHEN SHOWN ON THE PLAN.



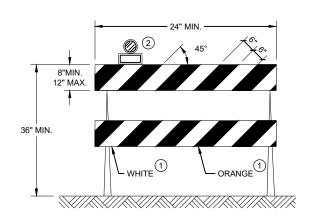


42" CONE DO NOT USE IN TAPERS

½ SPACING OF DRUMS

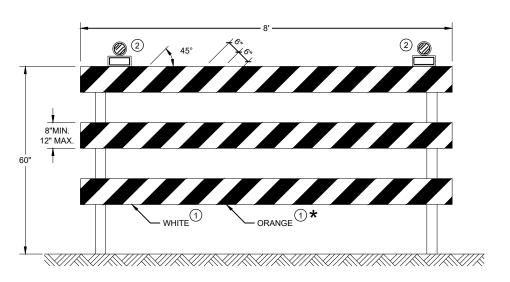


VERTICAL PANEL THE STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE II BARRICADE

FOR RAILS LESS THAN 36" LONG, 4" WIDE STRIPES MAY BE USED. ALL STRIPES SHALL SLOPE DOWNWARD TO THE TRAFFIC SIDE FOR CHANNELIZATION.



TYPE III BARRICADE

IF SIGN MOUNTED, DO NOT COVER MORE THAN 50% OF THE TOP TWO RAILS OR 33% OF THE TOTAL AREA OF THE THREE RAILS.

* IF USED FOR A PERMANENT APPLICATION USE RED SHEETING.

CHANNELIZING DEVICES DRUMS, CONES, BARRICADES AND VERTICAL PANELS

07

SDD 15C

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED	
June 2017	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
CL DAZA	

GENERAL NOTES FLAGGING LEGEND FLAGGERS SHALL BE IN SIGHT OF EACH OTHER OR IN DIRECT COMMUNICATION AT ALL TIMES. THEY SHALL BE EQUIPPED WITH DETAILS OF TRAFFIC CONTROL DEVICES AND INSTALLATION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE SIGN ON PORTABLE OR PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS, THE SPECIAL PROVISIONS, AND THE MANUAL ON STOP/SLOW PADDLES FASTENED ON SUPPORT STAFFS. WHEN THE FLAGGING OPERATION IS NOT IN EFFECT REMOVE TEMPORARY PERMANENT SUPPORT PORTABLE RUMBLE STRIPS PRIOR TO COVERING OR REMOVING ALL ADVANCE SIGNING. UNIFORM TRAFFIC CONTROL DEVICES. ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED. FOR MOVING WORK OPERATIONS, POST ADDITIONAL W20-7A FLAGGER SIGNS AT APPROXIMATELY 3,500' INTERVALS IN THE MOVING TEMPORARY PORTABLE RUMBLE WORK OPERATION OR AS APPROVED BY THE ENGINEER. STRIP ARRAY "WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THE BACKGROUND IS ORANGE. SIGN NOT REQUIRED IF FLAGGING OPERATION OCCURS WITHIN A SIGNED ROAD WORK ZONE AREA. THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS, DEVICES, AND LOCATION OF ALL FLAGGERS SHALL BE DIRECTION OF TRAFFIC ADJUSTED TO FIT FIELD CONDITIONS AS APPROVED BY THE ENGINEER. WHEN THE DISTANCE BETWEEN FLAGGERS EXCEEDS 2 MILES, A PILOT CAR IS REQUIRED. WHEN CURVES REDUCE SIGHT DISTANCE BELOW 400', A PILOT CAR IS REQUIRED. THE FIRST ADVANCE WARNING SIGN SHOULD TYPICALLY BE LOCATED IN ADVANCE OF THE ANTICIPATED TRAFFIC BACKUP WORK AREA **TEMPORARY PORTABLE RUMBLE STRIPS** WHEN A SIDE ROAD OR RAMP INTERSECTS THE FACILITY ON WHICH THE WORK IS BEING PERFORMED, ADDITIONAL UTILIZE TEMPORARY PORTABLE RUMBLE STRIPS ON ALL FLAGGING OPERATIONS. TRAFFIC CONTROLS SHALL BE PROVIDED AS SPECIFIED IN THE PLANS AND/OR THE SPECIAL PROVISIONS OR AS APPROVED BY THE ENGINEER. FLAGGER, EQUIPPED WITH STOP/SLOW EACH TEMPORARY PORTABLE RUMBLE STRIP ARRAY CONSISTS OF THREE RUMBLE STRIPS SPACED ACCORDING TO MANUFACTURER'S PADDLE FASTENED ON SUPPORT STAFF



RUMBLE

STRIPS

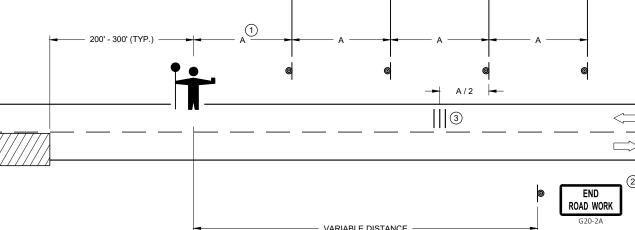
WORK

SIGN AND TEMPORARY RUMBLE STRIP ARRAY SPACING TABLE

SPEED LIMIT	SPACING "A"
25-30 MPH	200'
35-40 MPH	350'
45-55 MPH	500'

BE PREPARED TO STOP WO3-4

USE OF WO3-4 SIGN IS OPTIONAL. WHEN USED, THIS SIGN SHALL BE LOCATED BETWEEN THE W20-7A AND W20-4A SIGNS, USING SPACING "A"



RECOMMENDATION, PLACED TRANSVERSE ACROSS THE LANE AT LOCATIONS SHOWN. ONLY USE TEMPORARY PORTABLE RUMBLE STRIPS FOR THE APPROVED PRODUCTS LIST. INSTALL TEMPORARY RUMBLE STRIPS PER MANUFACTURER'S RECOMMENDATIONS. PLACE ADVANCE SIGNING PRIOR TO INSTALLING TEMPORARY RUMBLE STRIPS.

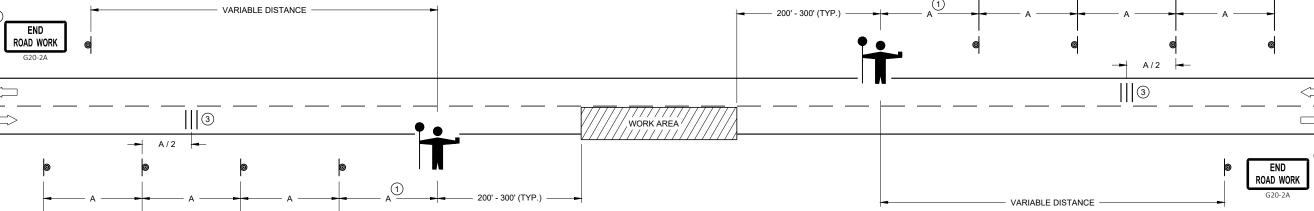
THAN 12 HOURS.

DO NOT INSTALL TEMPORARY PORTABLE RUMBLE STRIPS ON GRAVEL, MILLED SURFACES, OR ASPHALT THAT HAS BEEN PAVED LESS

ROAD

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STRIPS



TRAFFIC CONTROL FOR LANE CLOSURE WITH FLAGGING OPERATION

TRAFFIC CONTROL FOR LANE CLOSURE WITH **FLAGGING OPERATION**

2

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WORK

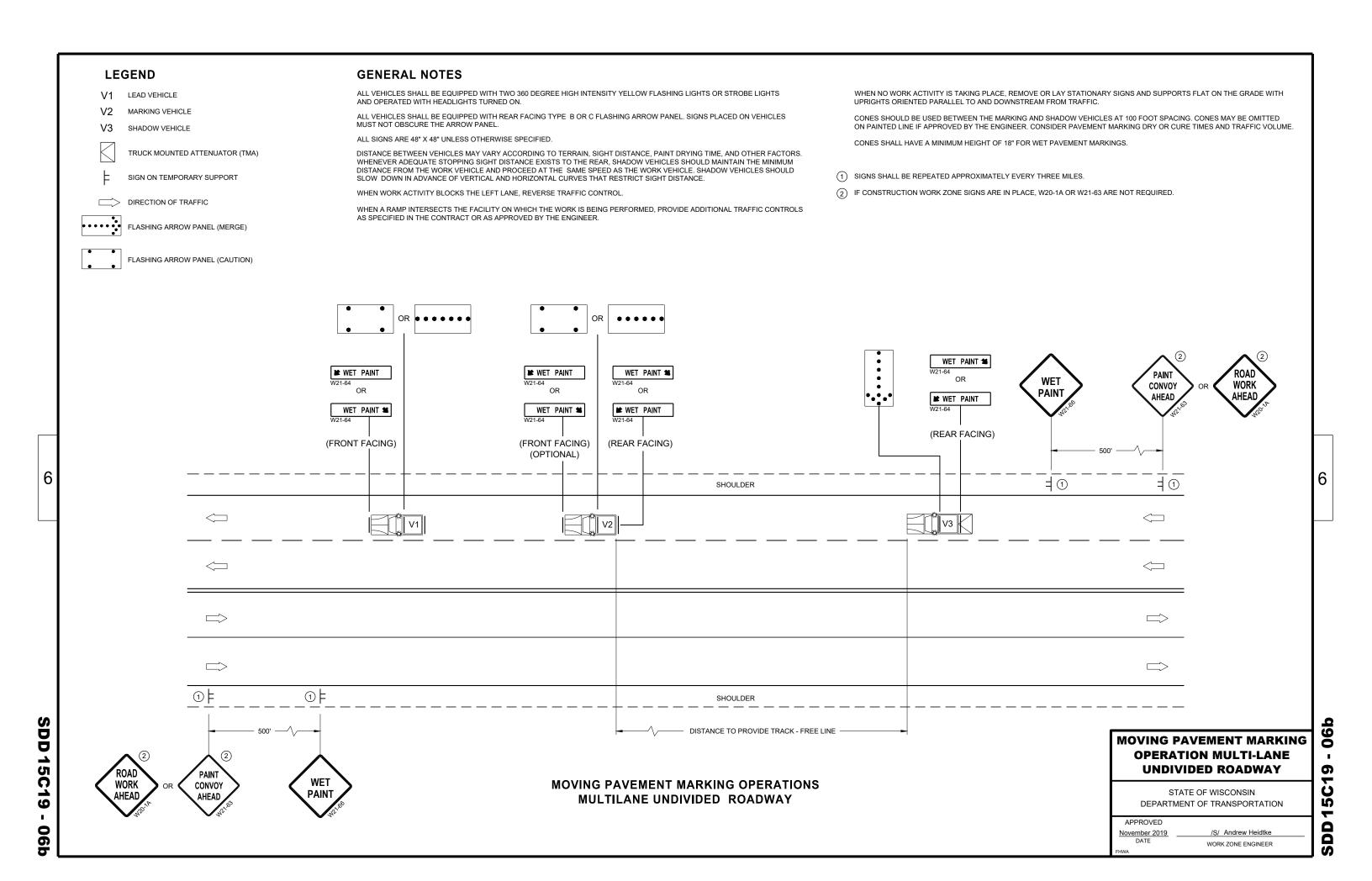
STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

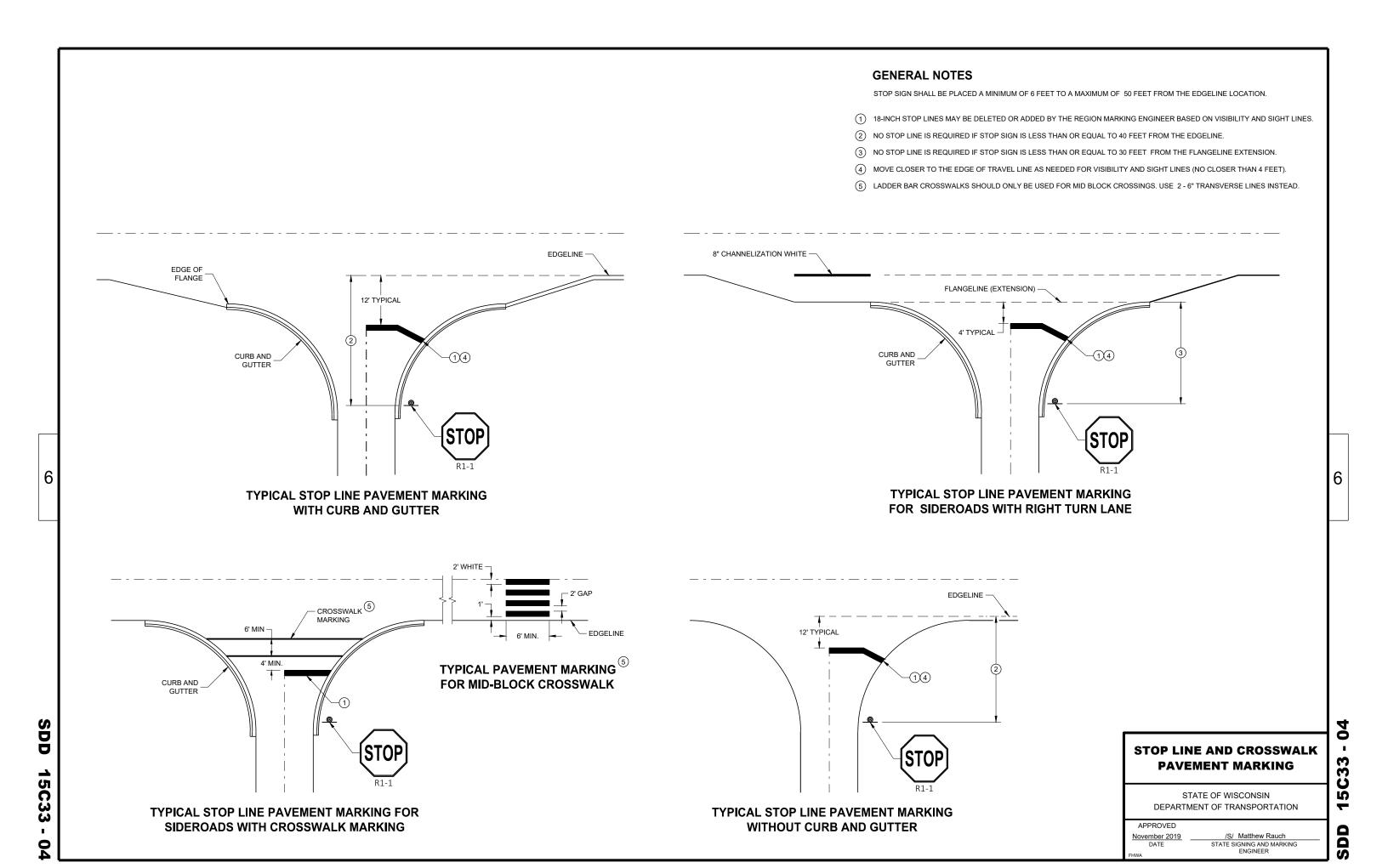
APPROVED	
May 2019	/S/ Andrew Heidtke
DATE	WORK ZONE ENGINEER
FHWA	

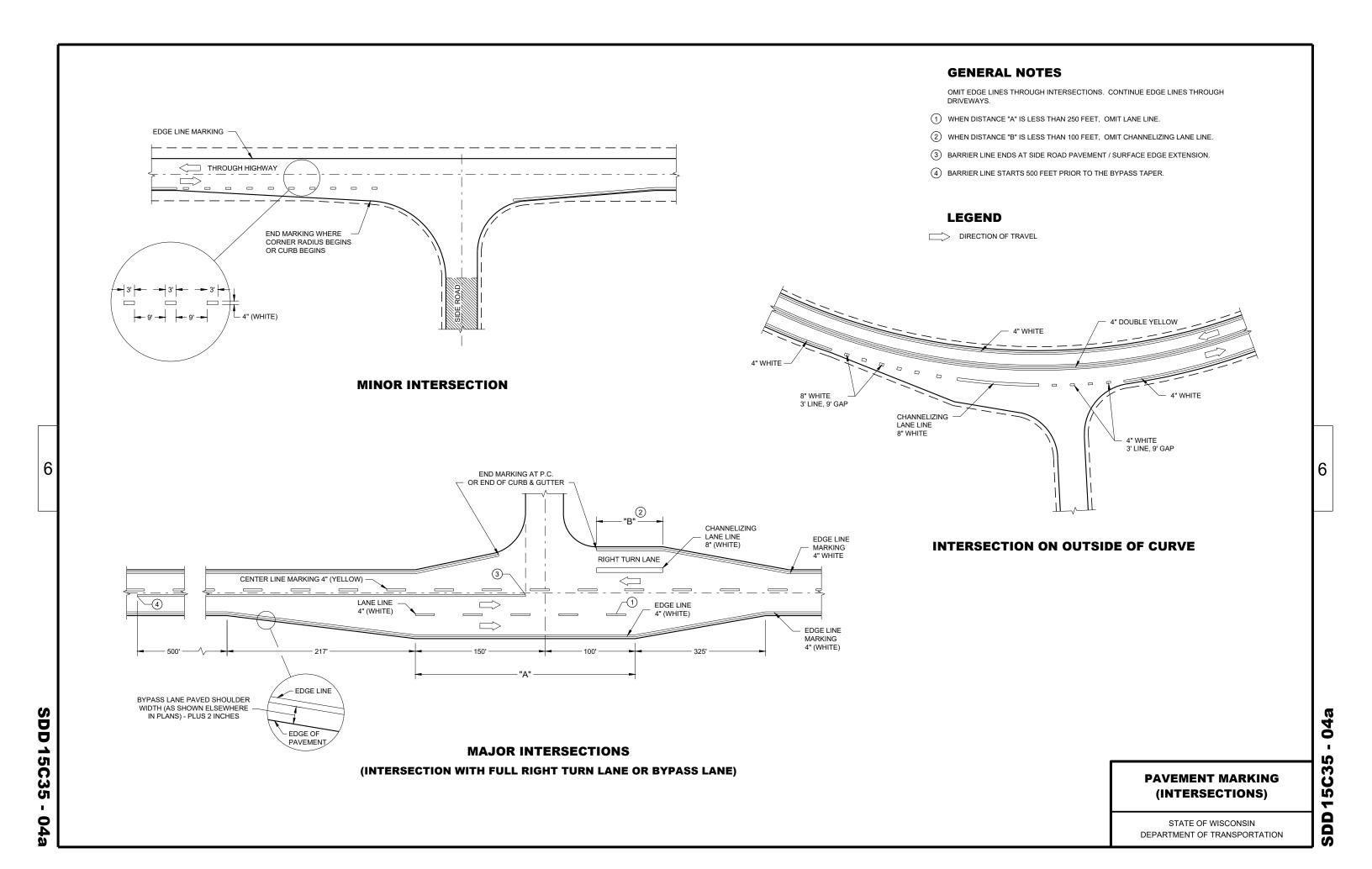
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WORK ZONE ENGINEER

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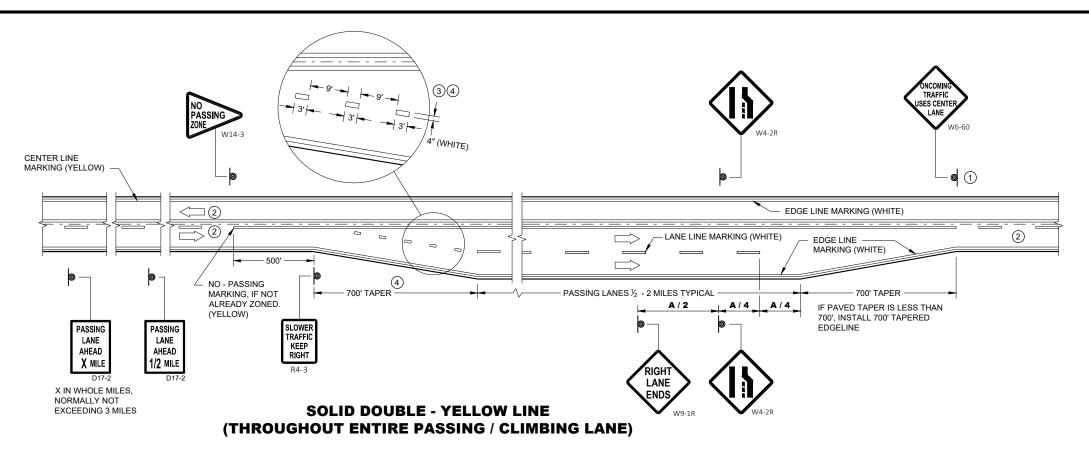


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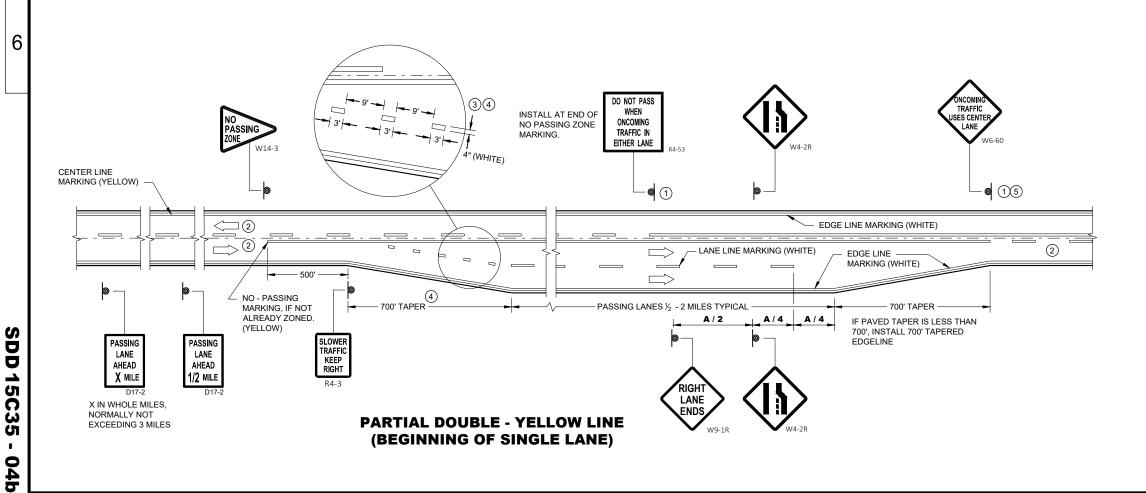
GENERAL NOTES

- \bigodot Sign shall be repeated at 1 mile increments or at the discretion of the regional traffic engineer.
- 2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE GAP PATTERN WHERE EXISTING MARKINGS ARE IN PLACE.
- 4 WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT INSTALL DOTTED LINE PAVEMENT MARKING.
- (5) REPEAT EVERY 1 MILE UP UNTIL R4-53.

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

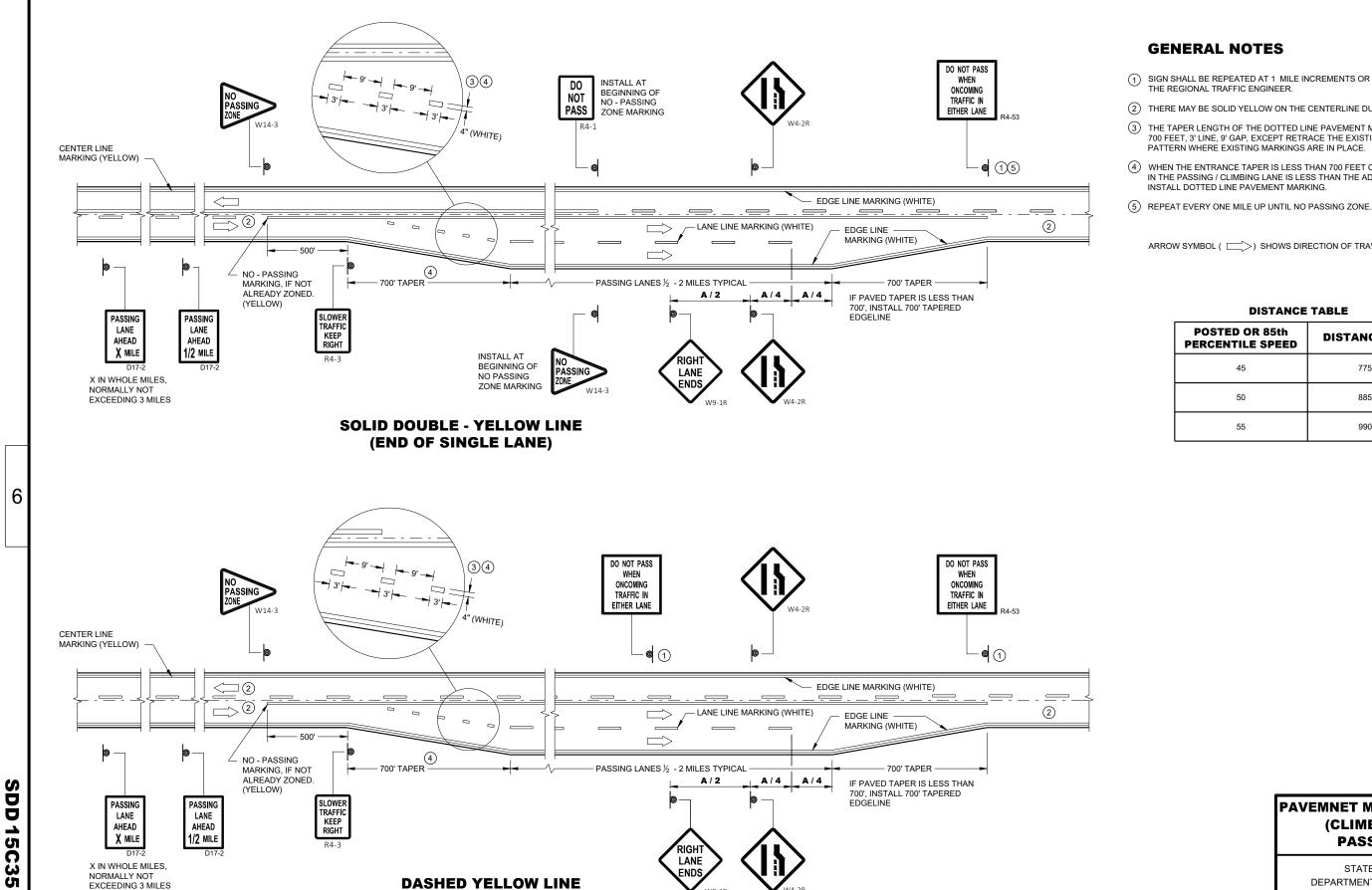
DISTANCE TABLE

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990



PAVEMENT MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION



(THROUGHOUT SINGLE LANE)

04c

- (1) SIGN SHALL BE REPEATED AT 1 MILE INCREMENTS OR AT THE DISCRETION OF
- (2) THERE MAY BE SOLID YELLOW ON THE CENTERLINE DUE TO SIGHT CONDITIONS.
- 3 THE TAPER LENGTH OF THE DOTTED LINE PAVEMENT MARKING SHALL BE 700 FEET, 3' LINE, 9' GAP, EXCEPT RETRACE THE EXISTING LINE - GAP
- WHEN THE ENTRANCE TAPER IS LESS THAN 700 FEET OR THE SHOULDER WIDTH IN THE PASSING / CLIMBING LANE IS LESS THAN THE ADJACENT HIGHWAY, DO NOT

ARROW SYMBOL () SHOWS DIRECTION OF TRAVEL

POSTED OR 85th PERCENTILE SPEED	DISTANCE "A"
45	775
50	885
55	990

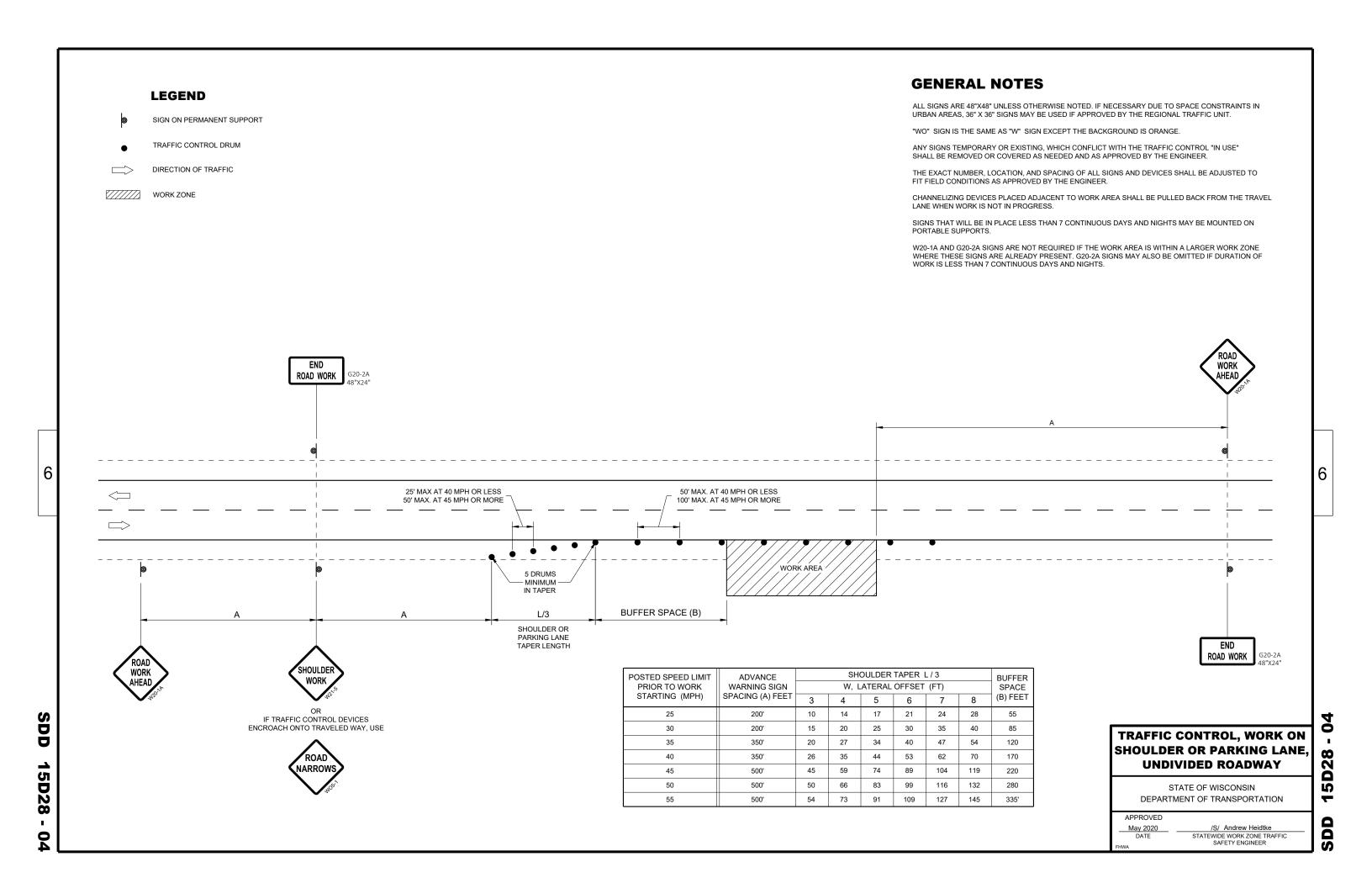
PAVEMNET MARKING & SIGNING (CLIMBING LANE & **PASSING LANE)**

> STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

APPROVED November 2019 DATE

/S/ Matthew Rauch STATE SIGNING AND MARKING ENGINEER

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TUBULAR STEEL POSTS

AREA OF SIGN INSTALLATION (SO. FT.)	NUMBER OF REQUIRED TUBULAR STEEL POSTS
9 OR LESS	1
GREATER THAN 9 LESS THAN OR EQUAL TO 18	2
GREATER THAN 18 LESS THAN OR EQUAL TO 27	3

SIGNS WIDER THAN 3 FEET OR LARGER THAN 9 SO.FT. SHALL BE MOUNTED ON MULTIPLE POSTS (SEE ABOVE TABLE). SIGNS LARGER THAN 27 SO.FT. SHALL NOT BE MOUNTED ON TUBULAR STEEL POSTS.

URBAN AREA

POST MOUNTING DETAIL FOR TEMPORARY TRAFFIC CONTROL FIXED MESSAGE SIGNS

WOOD POST **EMBEDMENT DEPTH**

AREA OF SIGN INSTALLATION (SQ. FT.)	D (MIN)
20 OR LESS	4'
GREATER THAN 20	5'

4" X 6" WOOD POST

POST SPACING REQUIREMENTS		NUMBER OF WOOD POSTS	
L	E	REQUIRED	
48" OR LESS AND LESS THAN 20 SO.FT.	-	1	
LESS THAN 60"	12"	2	٤
60" TO 120"	L/5	2	
GREATER THAN 120" LESS THAN 168"	12"	3	
168" AND GREATER	12"	4	

SEE NOTE (3)

RURAL AREA

TEMPORARY TRAFFIC CONTROL SIGN MOUNTING

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

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- 11/2" DIAMETER HOLES

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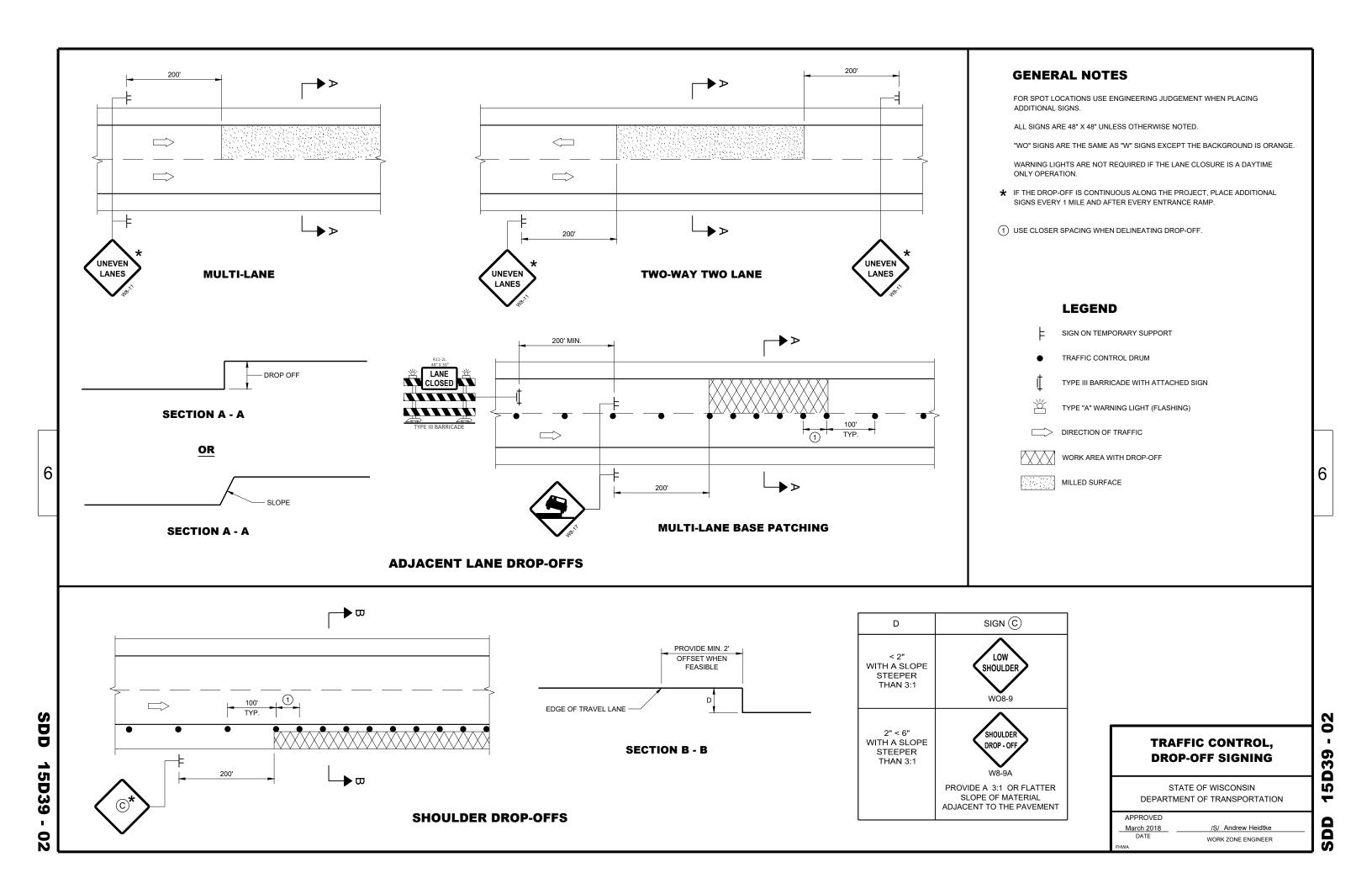
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STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION

> /S/ Andrew Heidtke WORK ZONE ENGINEER

APPROVED

June 2017 DATE



DRAWING NOT TO SCALE. ALL SIGNS AND POSTS ON THIS SHEET SHALL BE PAID FOR WITH 'TRAFFIC CONTROL SIGNS' BID ITEM. ALL SIDE ROADS WHICH ARE UNDER CONSTRUCTION OF CURB AND GUTTER AND/OR GRADING SHALL BE ADEQUATELY SIGNED.

ALL SIGNS AND DEVICES SHALL BE IN CONFORMANCE WITH THE WISCONSIN MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (WMUTCD). SIGN LAYOUTS SHALL BE IN ACCORDANCE WITH THE WISDOT STANDARD SIGN PLATES.

"WO" SIGNS ARE THE SAME AS "W" SIGNS EXCEPT THAT THE BACKGROUND IS ORANGE.

ALL SIGNS ARE 48" X 48" UNLESS OTHERWISE NOTED.

THE EXACT NUMBER, LOCATION AND SPACING OF ALL SIGNS AND DEVICES SHALL BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE

ALL SIGNS INAPPROPRIATE TO THE STATUS OF THE CONTROL ZONE, INCLUDING PRE-EXISTING SIGNS IN THE VICINITY, SHALL BE COVERED

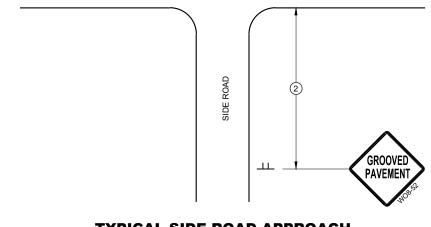
SEE 15C34 FOR ADDITIONAL TRAFFIC CONTROL SIGNING WHEN CENTERLINE PAVEMENT MAKINGS ARE MISSING. 'DO NOT PASS' SIGNS MUST BE INSTALLED ON THE SAME DAY AS MILLING OPERATIONS.

- (1) PLACE SIGNS 350' IN ADVANCE OF MILLED SURFACES AND AT 1 MILE INTERVALS, OR AS DIRECTED BY THE ENGINEER.
- (2) PLACE SIGN 200' MIN. FROM INTERSECTION AND 200' MIN. AFTER ADVANCE WARNING SIGN SHOWN IN SDD 15C04.

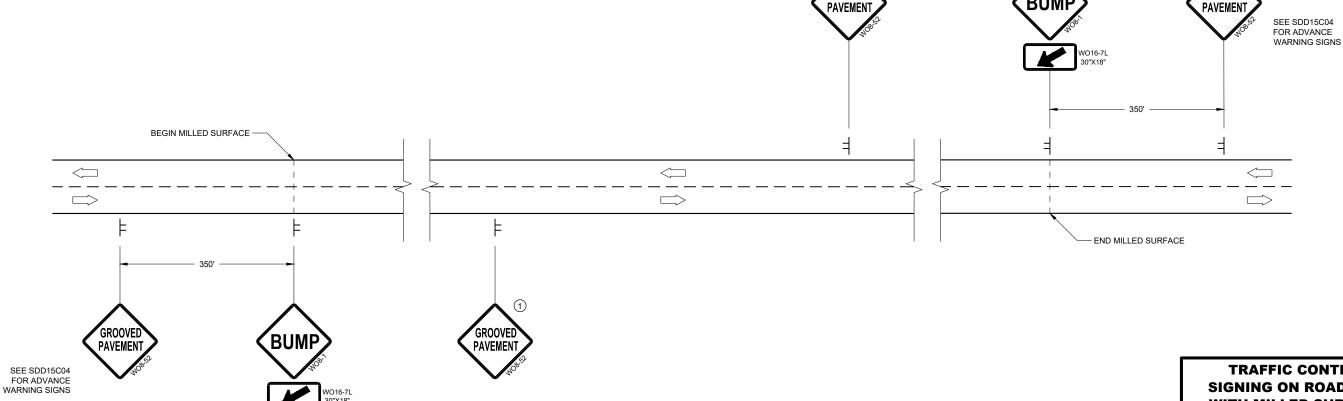
LEGEND

SIGN ON TEMPORARY SUPPORT

DIRECTION OF TRAFFIC



TYPICAL SIDE ROAD APPROACH SIGN DETAIL

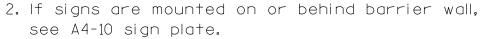


DETAIL FOR SIGNING ON MILLED SURFACES

TRAFFIC CONTROL, **SIGNING ON ROADWAYS WITH MILLED SURFACES**

STATE OF WISCONSIN DEPARTMENT OF TRANSPORTATION Ò D

APPROVED February 2020 DATE /S/ Andrew Heidtke WORK ZONE ENGINEER



The Double Arrow sign (W12-1D) shall be mounted at a height of 2'-3" (\pm). The Chevron sign (W1-8), Roundabout Chevron panel (R6-4B), Enhanced Reference Markers, Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4'-3" (\pm).

- 3. For expressways and freeways, mounting height is 7'- 3" (±) or 6'-3" (±) depending upon existence of a sub-sign.
- 4. Minimum mounting height for signs mounted on traffic signal poles is $5'-3''(\frac{+}{2})$.
- 5. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 6. The (±) tolerance for mounting height is 3 inches.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directd by the Engineer.

2' Min - 4' Max (See Note 6)

** Curb Flowline

D
White Edgeline Location

*

6'-3"(±)

D |

Outside Edge

of Gravel

White Edgeline
Location

Outside Edge
of Gravel

d.

POST EMBEDMENT DEPTH

Area of Sign
Installation
(Sq.Ft.)
(Min)
20 or Less
4'
Greater than 20
5'

The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.

HWY:

* 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.

TYPICAL INSTALLATION
OF PERMANENT TYPE II
SIGNS ON SINGLE POSTS

WISCONSIN DEPT OF TRANSPORTATION

Matther & Rawk For State Traffic Engineer

DATE 5/13/2020 PLATE NO. _A4-3.22

SHEET NO:

Ε

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A43.dgn

PROJECT NO:

PLOT DATE: 13-MAY 2020 1:04

COUNTY:

PLOT BY : mscj9h

PLOT NAME :

PLOT SCALE: \$\$.....plo†scale.....\$\$ WISDOT/CADDS SHEET 42

APPROVED



NOTES: 1. ALL MATERIAL TO BE APPROVED

BY ENGINEER PRIOR TO INSTALLATION

- 2. SEE SIGN PLATE A4-8 FOR SIGN HARDWARE REQUIREMENTS
- 3. 18 INCH X 18 INCH SQUARE BOX-OUTS MAY BE USED FOR INSTALLATIONS IN EXISTING CONCRETE OR ASPHALT LOCATIONS.



ELEVATION VIEW

DETAIL OF STEEL 2 X 2 SIGN POST IN BOX-OUT



DETAIL OF WOOD 4 X 6 SIGN POST IN BOX-OUT

HWY:



PLAN VIEW

COUNTY:

FOR NEW CONCRETE/ASPHALT INSTALLATIONS

SIGN POST BOX-OUTS A4-3B

WISCONSIN DEPT OF TRANSPORTATION

For State Traffic Engineer

DATE 1/27/14 PLATE NO. A4-3B.1

SHEET NO:

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A43B.DGN

PROJECT NO:

PLOT DATE: 27-JAN-2014 09:48

PLOT NAME :

PLOT BY: mscsja

PLOT SCALE: 13.659812:1.000000

APPROVED

WISDOT/CADDS SHEET 42

GENERAL NOTES

- 1. For 3 or 4 post installations, individual post spacing shall be greater than 3'-6".
- 2. See tables below for required number of posts.
- 3. For expressways and freeways, mounting height is 7'-3'' (±) or 6'-3'' (±) depending upon existence of sub-sign.
- 4. The (±) tolerance for mounting height is 3 inches.
- 5. J-Assemblies are considered to be one sign for mounting height.
- 6. Offset distance shall be consistent with existing signs or consistent throughout length of project.
- 7. Folding signs shall be mounted at a height of 5'-3'' (\pm) or as directed by the engineer.
- 8. The Double Arrow sign (W12-1) shall be mounted at a height of 2'-3" (±). The Chevron sign (W1-8). Roundabout Chevron panel (R6-4B), Clearance Markers (W5-52), Mile Markers (D10 series), In Road Object Markers (W5-54) & End of Road Markers (W5-56) shall be mounted at a height of 4''-3'' (±).
- * 6 feet from edge of a paved shoulder or 12 feet from the edge of pavement (edge line location) or 2 feet from outside edge of gravel, whichever is greater unless directed by project engineer.
- ** The existence of curb and gutter does not in itself mandate the vertical clearance illustrated. That height is typically measured where there is sidewalk adjacent to the roadway or parking is permitted. In the absence of sidewalk vertical clearance is measured from the top of the curb. Offset of signs is measured from the flow line.
- ** See A4-3 sign plate for signs 4' or less in width and less than 20 S.F. in area.

POST EMBEDMENT DEPTH

D
(Min)
4'
5'

WISCONSIN DEPT OF TRANSPORTATION APPROVED For State Traffic Engineer DATE 8/21/17 PLATE NO. <u>A4-4.15</u>





	SIGN SHAPE OTHER THAN DIAMOND (TWO POSTS REQUIRED)		
	L	E	
***	Greater than 48" Less than 60"	12"	
	60" to 108"	L/5	

HWY:

SIGN SHAPE OTHER THAN (THREE POSTS REQUIR	
L	E
Greater than 108" to 144"	12''

COUNTY:

FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A44.DGN

PROJECT NO:

PLOT DATE: 21-AUG-2017 15:54

PLOT SCALE: 108.188297:1.000000

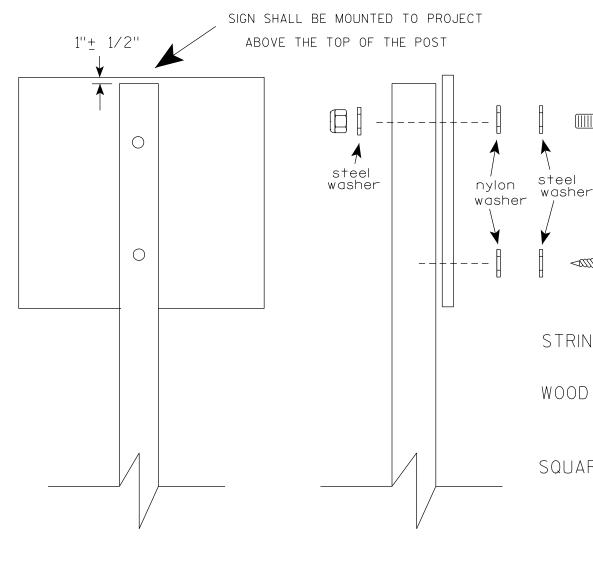
WISDOT/CADDS SHEET 42

OF TYPE II SIGNS ON MULTIPLE POSTS

TYPICAL INSTALLATION

SHEET NO:

PLOT BY: \$\$...plotuser...\$\$ PLOT NAME:



Nuts, bolts and lags used for mounting signs shall have hexagonal heads and shall be either:

- a. Hot dip galvanized in accordance with ASTM Designation: A 153, Class D, or SC 3
- b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3.

Threads on bolts and nuts shall be manufactured with sufficient allowance for the cadmium plate or galvanized coating to permit the nuts to run freely on the bolts.

STRINGER BOLTING TO ALUMINUM SIGNS (SEE SIGN PLATE A4-18)

MACHINE BOLTS - $\frac{5}{16}$ " X 1-3/4" Length w/ lock nuts

WOOD POSTS $(4" \times 6")$

LAG SCREWS - 3/8" X 3" (NO STRINGERS ON BACK OF SIGN)
3/8" X 4" (STRINGERS ON BACK OF SIGN)

SQUARE STEEL POSTS (2" x 2")

MACHINE BOLTS - 3/8" X 3-1/4" Length w/ nuts (NO STRINGER ON BACK OF SIGN) 3/8" X 5" Length w/ nuts (STRINGERS ON BACK OF SIGN)

RIVETS - $\frac{1}{32}$ " (6605-9-6) BULB-TITE, TRI-FOLD, ALUMINUM BODY/MANDREL O.D. FLANGE .720-.765 INCH, GRIP RANGE .042-.375 INCH

WASHERS (ALL POSTS) -

1-1/4" O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ " STEEL 1-1/4" O.D. X $\frac{3}{8}$ " I.D. X .080 NYLON

Two different fastening systems are shown for illustration purposes. On any individual sign, either one or the other system shall be used. Actual number of fasteners per sign varies with the sign area, but normally there are two. For a single post installation, all signs greater than 9 sq. ft. require the use of 3 fasteners.

ATTACHMENT OF SIGNS
TO POSTS

WISCONSIN DEPT OF TRANSPORTATION

APPROVED Matthew

For State Traffic Engineer

SHEET NO:

DATE <u>4/1/202</u>0

PLATE NO. <u>44-8.9</u>

PROJECT NO:

PLOT DATE: 01-APRIL-2020

PLOT BY : dotc4c

WISDOT/CADDS SHEET 42

Ε

FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A48.DGN



PROJECT NO: HWY: COUNTY: SHEET NO: FILE NAME : C:\CAEFiles\Projects\tr_stdplate\A49.DGN PLOT DATE: 05-FEB-2015 17:09 PLOT BY: mscsja PLOT NAME : PLOT SCALE: 13.659812:1.000000

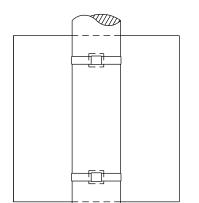
DATE 2/05/15

PLATE NO. <u>A4-9.9</u>

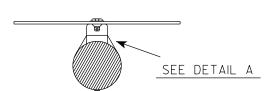
For State Traffic Engineer

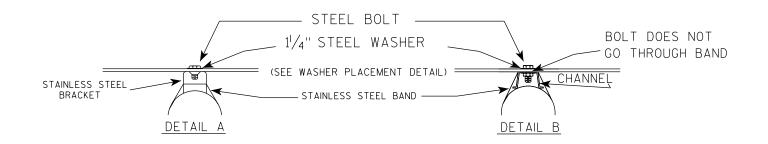


BANDING

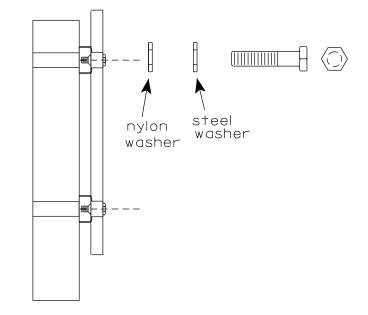


SINGLE SIGN





WASHER PLACEMENT



HWY:

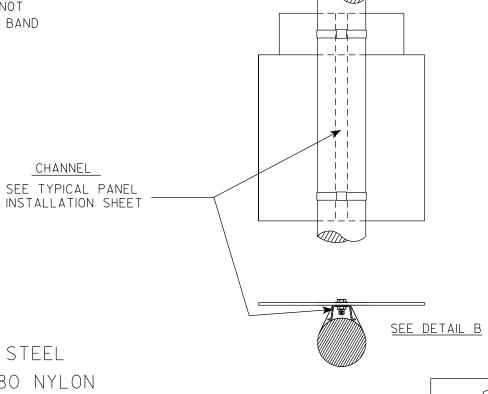
WASHERS (ALL POSTS) -

1-1/4" O.D. X³/₈" I.D. X¹/₁₆" STEEL 1-1/4" O.D. $\times \frac{3}{8}$ " I.D. \times .080 NYLON FOR ALL TYPE H SIGNS

GENERAL NOTES

- 1. Any sign over 3 feet in width shall use the V-Block banding method. See A5-10 standard plate.
- 2. Signs 3 feet or greater in height shall have three bracket bands installed. Signs less than 3 feet in height shall have two bracket bands installed.
- 3. Banding and assembly bracket shall be stainless steel. All bands shall be $\frac{3}{4}$ " in width and 0.025" thickness.
- 4. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM designation: B 633, Type III, SC 3

"J" ASSEMBLY



STANDARD SIGN SIGN BANDING DETAILS

WISCONSIN DEPT OF TRANSPORTATION

SHEET NO:

State Traffic Engineer

Ε

APPROVED

DATE 6/10/19 PLATE NO. A5-9.4

COUNTY:

PLOT DATE: 10-JUN 2019 4:10

PLOT NAME :

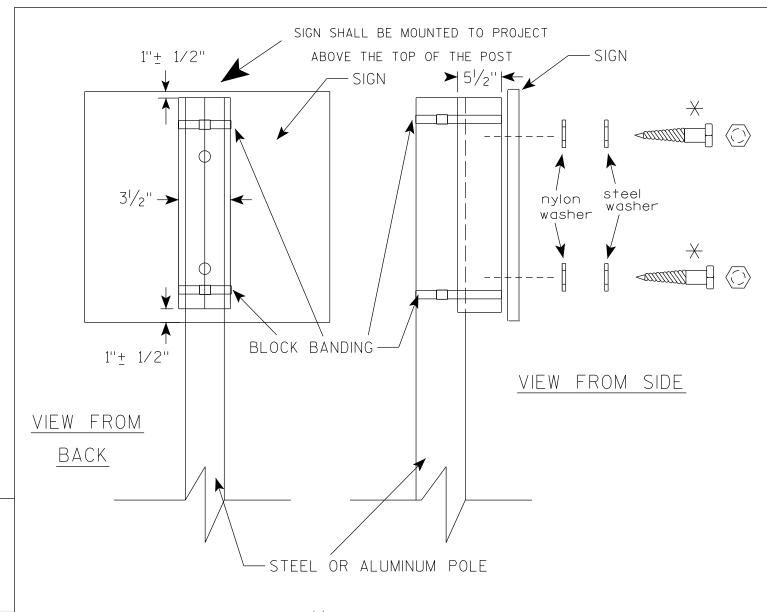
PLOT SCALE: \$\$.....plotscale.....\$\$ WISDOT/CADDS SHEET 42

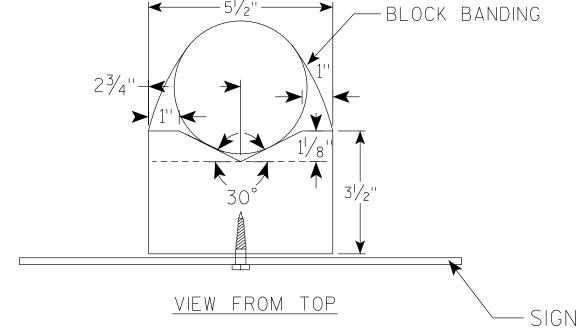
FILE NAME : C:\CAEfiles\Projects\tr_stdplate\A59.dgn

PROJECT NO:

PLOT BY: mscj9h

CHANNEL





GENERAL NOTES

- 1. WOOD 4"X6" POST MATERIAL SHALL CONFORM TO 507.2.2 OF THE WISDOT STANDARD SPECIFICATIONS
- 2. BLOCK BANDING AND CLIPS SHALL BE STAINLESS STEEL, $\frac{3}{4}$ " WIDTH AND 0.025" THICKNESS
- 3. SIGNS 3' OR GREATER IN HEIGHT SHALL UTILIZE 3 BLOCK BANDS.

 SIGNS UNDER 3' IN HEIGHT SHALL UTILIZE 2 BLOCK BANDS
- 4. ACTUAL NUMBER OF FASTENERS PER SIGN VARIES WITH THE SIGN AREA, BUT NORNALLY THERE ARE TWO. FOR SIGNS GREATER THAN 9 S.F. 3 FASTENERS SHALL BE USED.
- 5. ALL SIGN MOUNTING BOLTS AND WASHERS SHALL BE EITHER:
 - a. Hot dip or mechanically galvanized in accordance with ASTM Designation: A 153, Class D
 - b. Electro-galvanized in accordance with ASTM Designation: B 633, TYPE III, SC 3
- 6. ALL BOLTS SHALL HAVE HEXAGONAL HEADS.
- 7. STEEL WASHERS SHALL BE $1\frac{1}{4}$ " O.D. X $\frac{3}{8}$ " I.D. X $\frac{1}{16}$ "
- 8. NYLON WASHERS SHALL BE $1^{1}/_{4}$ " O.D. X $\frac{3}{8}$ " I.D. X .080 FOR TYPE H OR TYPE F FACE SIGN

 \rightarrow LAG BOLTS SHALL BE $\frac{3}{8}$ " X $2\frac{1}{2}$ "

BLOCK BANDING DETAIL (V-BLOCK OPTION)

WISCONSIN DEPT OF TRANSPORTATION

| APPROVED

For State Traffic Engineer

SHEET NO:

Matthew R

DATE 6/10/19

PLATE NO. _A5-10.2

PROJECT NO:

FILE NAME: C:\CAEfiles\Projects\tr_stdplate\A510.dgn

PLOT DATE: 10-JUN 2019 4:15

PLOT BY: mscj9h

WISDOT/CADDS SHEET 42



Wisconsin Department of Transportation

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